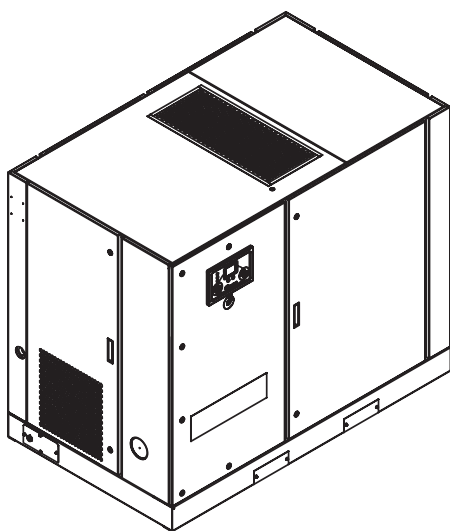




80448897
Revision D
August 2016

Contact-Cooled Rotary Screw Air Compressor

RS30IE, RS37IE



Parts Information



Save These Instructions



Only allow **Ingersoll Rand** trained Technicians to perform maintenance on this product. For additional information contact **Ingersoll Rand** factory or nearest Distributor.

The use of other than genuine **Ingersoll Rand** replacement parts may result in safety hazards, decreased performance and increased maintenance and may invalidate all warranties.

Refer all communications to the nearest **Ingersoll Rand** Office or Distributor.

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PARTS ORDERING INFORMATION

These products are designed and constructed to provide long, trouble-free service. In time it may be necessary to order and install new parts to replace those that have been subjected to wear.

For your convenience and future reference it is recommended that the following information be recorded.

Model Number _____

Serial Number _____

Date Purchased _____

When ordering replacement parts, please specify the following:

1. Complete model number and serial number as it appears on the data (name) plate.
2. Part number(s) and part description as shown in this manual.
3. Quantity required.

NOTICE

- Continuing improvement and advancement of design may cause changes to this equipment which are not included in this manual. Manuals are periodically revised to incorporate changes. Always check the manual edition number on the front cover for the latest issue.
- Sections of this manual may not apply to your product.
- Using other than genuine **Ingersoll Rand** replacement parts may invalidate the warranty.

■ Return Goods Policy

Ingersoll Rand will not accept any returned goods for warranty or service work unless prior arrangements have been made and written authorization has been provided from the location where the goods were purchased.

Products which have been modified without **Ingersoll Rand** approval, mishandled or misused will not be repaired or replaced under warranty. A printed copy of the warranty which applies to this product is provided inside the back cover of this manual.

■ Disposal



When the life of the product has expired, it is recommended that it be disassembled, degreased and parts separated as to materials so that they may be recycled.

Refer all communications to the nearest **Ingersoll Rand** Office or Distributor.

ABOUT THIS MANUAL

The purpose of this manual is to provide site planning, installation and operation guidelines for the compressor.

For supporting documentation refer to Table 1.

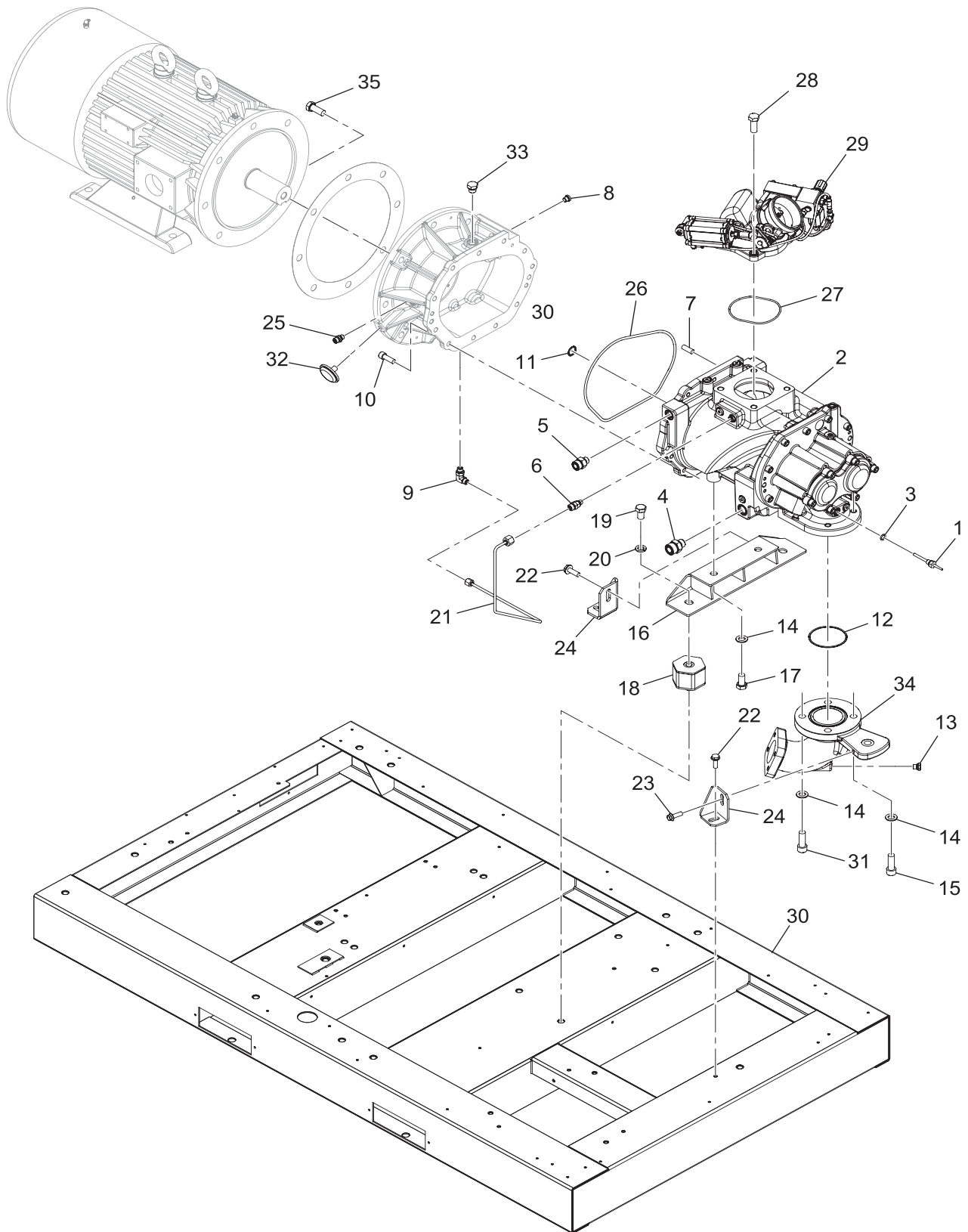
Table 1 : Product Manuals

Publication	Product	Part/Document Number by Region		
		Americas	EMEIA *	Asia Pacific
Product Safety Information Manual	All	80446313	80446156	80446321
Product Information Manual	RS 30-37IE	80448830	80448848	80448855
Product Maintenance Manual	RS 30-37IE	80448863	80448871	80448889
Product Parts Information Manual	RS 30-37IE	80448897		

* Europe, Middle East, India and Africa

Product specification sheets and reference drawings are also available.

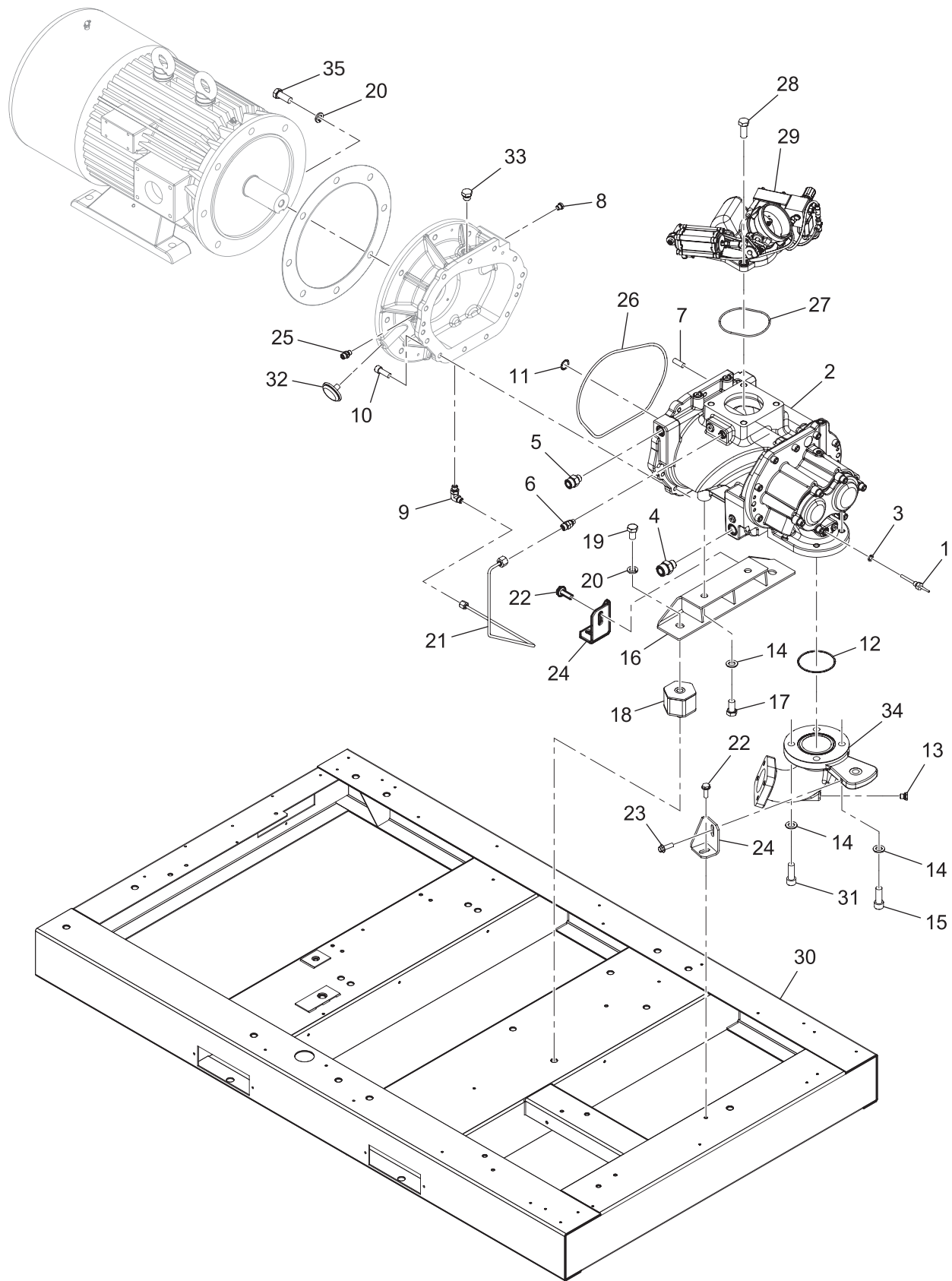
AIREND - 7.5 - 8.5 BARG (110 - 125 PSIG) FIXED SPEED DRIVE ASSEMBLY DRAWING



AIREND - 7.5 - 8.5 BARG (110 - 125 PSIG) FIXED SPEED DRIVE PARTS LIST

Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
1	23522253	1	SENSOR, TEMPERATURE THERMISTOR	25	96757919	1	CONNECTOR, 0.25 TUBE x M12
2	49078876	1	ASSEMBLY, AIREND	26	95990776	1	O-RING
3	96759295	1	O-RING	27	95023131	1	O-RING STANDARD
4	47525018001	1	ORIFICE, CONNECTOR	28	96702337	2	SCREW, HEX HEAD FLANGE M16 - 2 x 40
5	47532228001	1	ORIFICE, CONNECTOR	29	47538567001	1	VALVE INLET HPKG80 MODULATION (RS37IE)
6	47536005001	1	VALVE, IN-LINE CHECK		47538566001	1	VALVE, INLET HAKG80 - ON/OFF FS (RS37IE)
7	96739743	2	PIN, DOWEL		47522567001	1	VALVE, INLET - HPG65 MODULATION (RS30IE)
8	96954193	1	PLUG, HOLLOW		47522568001	1	VALVE, INLET - HAKG65 ON/OFF FS (RS30IE)
9	96757604	1	ELBOW, 90	30	47568929001	1	BASE, STD & VSD RS30-37IE
10	96738349	11	SCREW, SOCKET HEAD		47574808001	1	BASE, CONTAINMENT RS30-37IE, BSPT
11	96961875	1	O-RING		47574809001	1	BASE, STANDARD RS30-37 kW - AP
12	95987236	1	O-RING		47574810001	1	BASE, CONTAINMENT STD & VSD RS30-37IE, BSPT - AP
13	96757000	1	PLUG, HEX HEAD M12		47574815001	1	BASE, CONTAINMENT STD & VSD RS30-37I E, NPT AMERICAS
14	96705645	6	WASHER, PRODUCT GRADE A M16	31	96738513	1	SCREW, HEX HEAD M16-2 x 45
15	96708391	3	SCREW, SOCKET HEAD M16 x 45	32	88089743	1	BREATHER, FILTER .25 INCH BSPT
16	47524329001	1	SUPPORT, AIREND	33	96757034	1	PLUG, HEX HEAD M18
17	96738380	2	SCREW, M16 -2 x 30	34	47521152001	1	ELBOW, DISCHARGE
18	23591779	2	MOUNT, ISOLATION	35	96702337	1	SCREW, HEX HEAD M16-2 x 40
19	96738372	2	SCREW HEX HEAD M16 x 25				
20	96765169	2	WASHER, LOCK HELICAL SPRING M16				
21	47559119001	1	TUBE, 0.25 INCH GEARCASE				
22	54656905	3	TAPTITE SCREW				
23	96718663	1	SCREW, HEX HEAD FLANGE M10 x 30				
24	47539974001	2	BRACKET, SHIPPING				

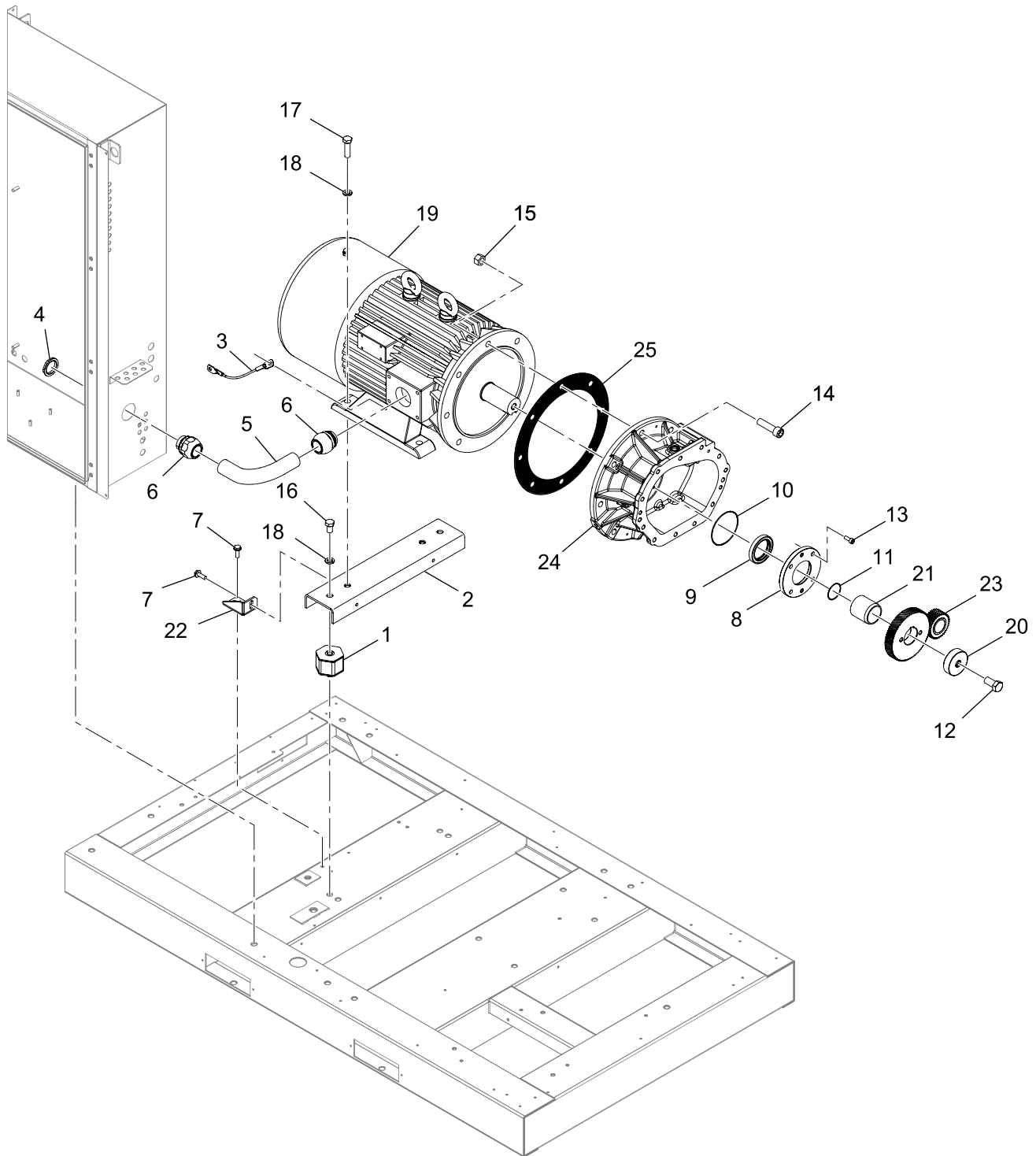
AIREND - 10 - 14 BARG (145 - 200 PSIG) FIXED SPEED DRIVE ASSEMBLY DRAWING



AIREND - 10 - 14 BARG (145 - 200 PSIG) FIXED SPEED DRIVE PARTS LIST

Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
1	23522253	1	SENSOR, TEMPERATURE THERMISTOR	25	96757919	1	CONNECTOR .25 TUBE x M12
2	47566389001	1	ASSEMBLY, AIREND	26	95990776	1	O-RING
3	96759295	1	O-RING	27	95023131	1	O-RING STANDARD
4	47525018001	1	ORIFICE, CONNECTOR	28	96702337	2	SCREW, HEX HEAD FLANGE M16 - 2 x 40
5	47532228001	1	ORIFICE, CONNECTOR	29	47538567001	1	VALVE INLET HPKG80 MODULATION (RS37IE)
6	47536005001	1	VALVE, IN-LINE CHECK		47538566001	1	VALVE, INLET HAKG80 - ON/OFF FS (RS37IE)
7	96739743	2	PIN, DOWEL		47522567001	1	VALVE, INLET - HPG65 MODULATION (RS30IE)
8	96954193	1	PLUG, HOLLOW		47522568001	1	VALVE, INLET - HAKG65 ON/OFF FS (RS30IE)
9	96757604	1	ELBOW, 90	30	47568929001	1	BASE, STD & VSD RS30-37IE
10	96702329	11	SCREW, SOCKET HEAD		47574808001	1	BASE, CONTAINMENT RS30-37IE, BSPT
11	96961875	1	O-RING		47574809001	1	BASE, STANDARD RS30-37 KW - AP
12	95987236	1	O-RING		47574810001	1	BASE, CONTAINMENT STD & VSD RS30-37IE, BSPT - AP
13	96757000	1	PLUG, HEX HEAD M12		47574815001	1	BASE, CONTAINMENT STD & VSD RS30-37IE, NPT AMERICAS
14	96705645	6	WASHER, PRODUCT GRADE A M16	31	96738513	1	SCREW, HEX HEAD M16-2.00X 45.0 LONG
15	96708391	3	SCREW, SOCKET HEAD M16 x 45	32	88089743	1	BREATHING, FILTER .25 INCH BSPT
16	47524329001	1	SUPPORT, AIREND	33	96757034	1	PLUG, HEX HEAD M18
17	96738380	2	SCREW, M16 -2.00 X 30.0	34	47521152001	1	ELBOW, DISCHARGE
18	23591779	2	MOUNT, ISOLATION	35	96703186	1	SCREW, HEX HEAD M16-2 x 35
19	96738372	2	SCREW, HEX HEAD M16-2 x 25				
20	96765169	3	WASHER, LOCK HELICAL SPRING M16				
21	47569906001	1	TUBE, 0.25 INCH GEARCASE				
22	54656905	3	TAPTITE SCREW				
23	96718663	1	SCREW, HEX HEAD FLANGE M10 x 30				
24	47539974001	2	BRACKET, SHIPPING				

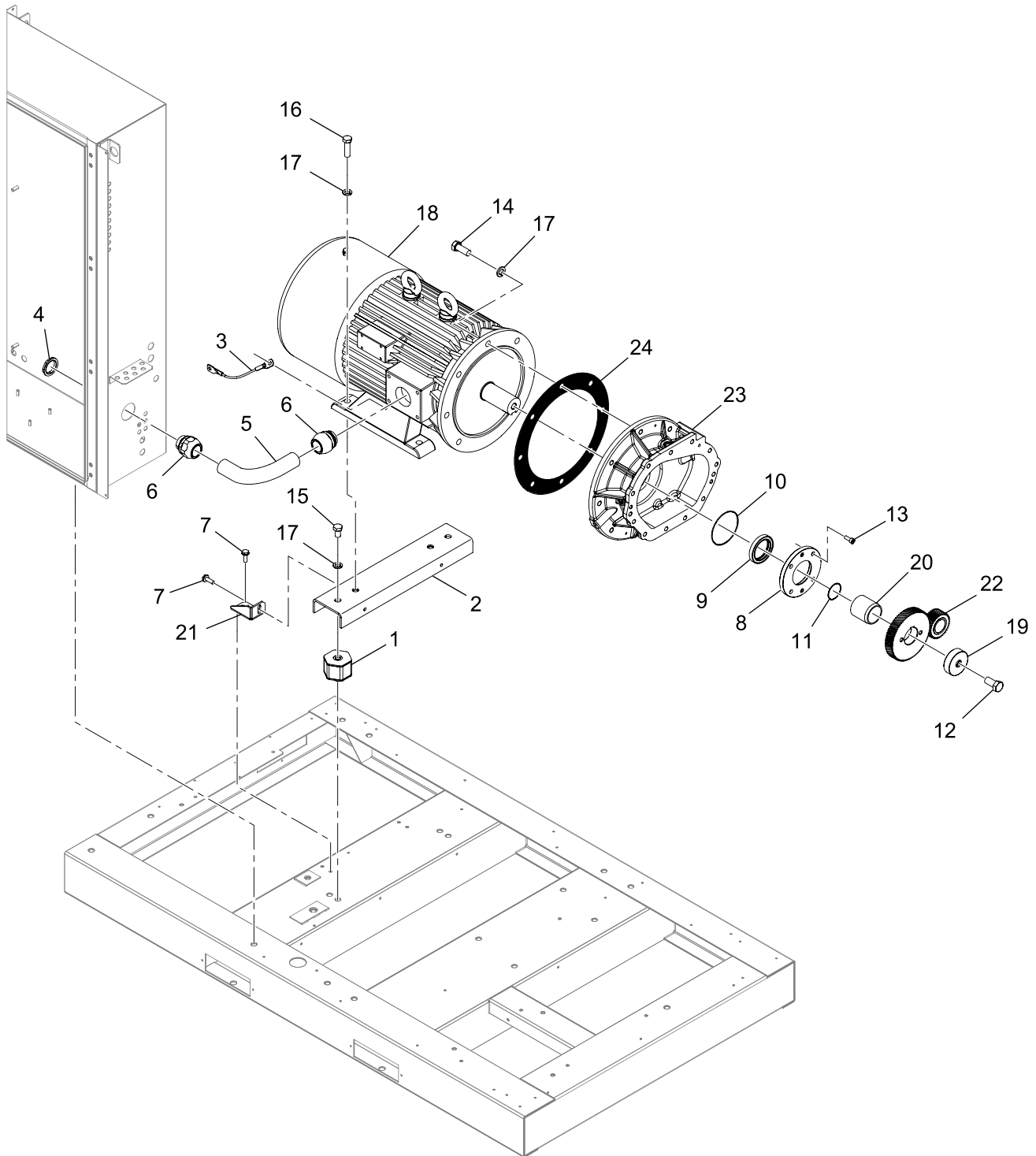
DRIVE - 7.5 - 8.5 BARG (110 - 125 PSIG) FIXED SPEED ASSEMBLY DRAWING



DRIVE - 7.5 - 8.5 BARG (110 - 125 PSIG) PARTS LIST

Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
1	23591779	2	MOUNT, ISOLATION	19	47521743001	1	MOTOR, DRIVE - 40 hp, 380 V, 3PH, 60 Hz, IP55, 4P, IE3, INMETRO
2	23677693	1	MOUNT, MOTOR		47538900001	1	MOTOR, DRIVE - 50 hp 230/460V 4P 60 Hz TEFC (IE3)
3	23877145	1	CABLE, EARTH GROUND 15" LONG (4AWG)		24875361	1	MOTOR, DRIVE - 50 hp, 380 V, 3-PH, 60 Hz, IP55, 4P, IE3, FS
4	24248064	1	LOCKNUT		47521747001	1	MOTOR, DRIVE - 50 hp, 575 V, 3PH, 60 Hz, IP55, 4P, IE3, FS
5	39147194	14"	CONDUIT		47538901001	1	MOTOR, DRIVE - 50 hp, 575 V, 4P, 60 Hz, TEFC (IE3)
6	54564059	2	CONNECTOR		47521745001	1	MOTOR, DRIVE - 50 hp, 380 V, 3PH, 60 Hz, IP55, 4P, IE3, INMETRO
7	54656905	4	TAPTITE SCREW		47521741001	1	MOTOR, DRIVE - 50 hp, 220/440 V, 3PH, 60 Hz, IP55, 4P, IE3, INMETRO
8	47568140001	1	SEAL HOUSING, MOTOR SHAFT		47538896001	1	MOTOR, DRIVE - 40 hp, 200 V, 4P, 60 Hz, TEFC (IE3)
9	88142450	1	SEAL, SHAFT HIGH PRESSURE		47538899001	1	MOTOR, DRIVE - 50 hp, 200 V, 4P, 60 Hz, TEFC (IE3)
10	95023107	1	O-RING, STANDARD - 156 4.250 ID x 0.094 WIDTH		47553759001	1	MOTOR, DRIVE - 30 kW, 380-415 V, 3-PH, 50 Hz, IP55, IE3, FS
11	95070272	1	O-RING, STANDARD - 033 2.00 ID x 0.062 WIDTH		47553760001	1	MOTOR, DRIVE - 37 kW, 380-415 V, 3-PH, 50 Hz, IP55, IE3, FS
12	96700901	1	SCREW, HEX HEAD M20-2.50 x 40	20	47524345001	1	SPACER, CLAMP PLATE MOTOR - BORE 55
13	96705660	4	SCREW, SOCKET HEAD M6 x 16	21	47536040001	1	SLEEVE, MOTOR SHAFT RS137 mm
14	96725130	5	SCREW, SOCKET HEAD M16 x 60	22	47539974001	2	BRACKET, SHIPPING
15	96711882	5	NUT	23	48864995	1	GEARSET RATIO 1.805 - RS30IE 7.5 BARG/ RS37IE 110 PSIG/ HIGH AMBIENT
16	96738372	2	SCREW, HEX HEAD M16 - 2.00 x 25.0 LONG		24904872		GEARSET, RATIO 1.674, RS30IE 8.5 BARG/ HIGH AMBIENT
17	96719836	2	SCREW, HEX HEAD M16 - 2.00 x 55.0 LONG		24905895		GEARSET, RATIO 2.194 , RS37IE 7.5 BARG
18	96765169	4	WASHER, LOCK HELICAL SPRING M16		24698524		GEARSET, RATIO 2.026, RS37IE 8.5 BARG
19	47521739001	1	MOTOR, DRIVE - 30 kW, 380-415 V, 3-PH, 50 Hz, IP55, 4P, IE3, FS		24900748		GEARSET, RATIO 1.500, RS30IE 110 PSIG/ HIGH AMBIENT
	47521738001	1	MOTOR, DRIVE - 37 kW, 380-415 V, 3-PH, 50 Hz, IP55, 4P, IE3, FS		24900714		GEARSET, RATIO 1.396, RS30IE 125 PSIG/ HIGH AMBIENT
	24876021	1	MOTOR, DRIVE - 40 hp, 200 V, 3PH, 60 Hz, IP55, 4P, IE3, FS		24900706		GEARSET, RATIO 1.738, RS37IE 125 PSIG
	47521742001	1	MOTOR, DRIVE - 40 hp, 230/460 V, 3PH, 60 Hz, IP55, 4P, IE3, FS	24	47545844001	1	GEARCASE, MACHINING 137 mm IG
	47538897001	1	MOTOR, DRIVE - 40 hp, 230/460 V, 4P, 60 Hz, TEFC (IE3)	25	47534792001	1	GASKET, SEAL MOTOR - ADAPTER PLATE
	24875353	1	MOTOR, DRIVE - 40 hp, 380 V, 3-PH, 60Hz, IP55, 4P, IE3, FS				
	47521746001	1	MOTOR, DRIVE - 40 hp, 575 V, 3PH, 60 Hz, IP55, 4P, IE3, FS				
	47538898001	1	MOTOR, DRIVE - 40 hp, 575 V, 4P 60 Hz, TEFC (IE3)				
	47521744001	1	MOTOR, DRIVE - 40 hp, 380 V, 3PH, 60 Hz, IP55, 4P, IE3, INMETRO				
	47521740001	1	MOTOR, DRIVE - 40 hp, 220/440 V, 3PH, 60 Hz, IP55, 4P, IE3, INMETRO				
	24876039	1	MOTOR, DRIVE - 50 hp, 200 V, 3PH, 60 Hz, IP55, 4P, IE3, FS				

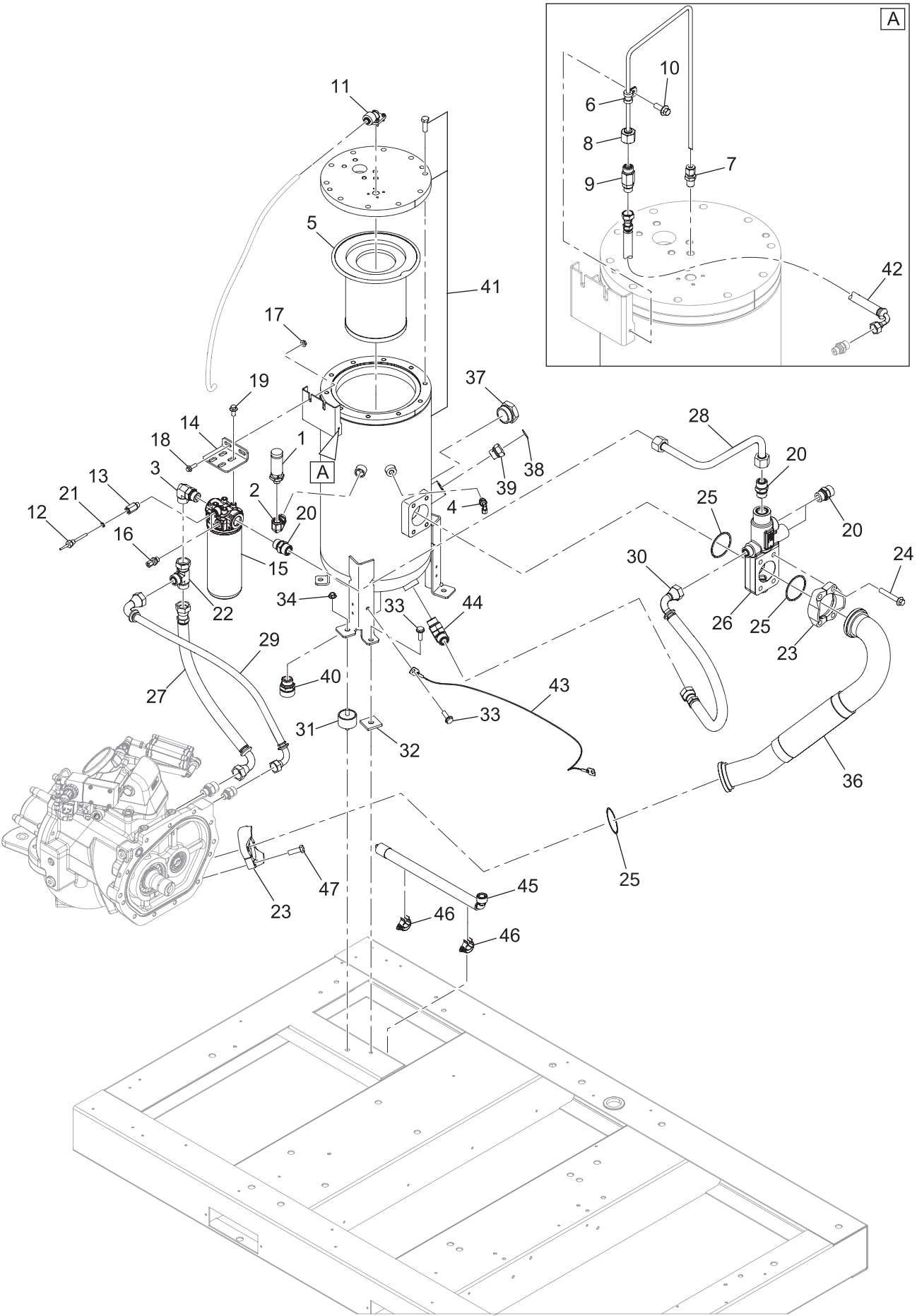
DRIVE - 10 - 14 BARG (145 - 200 PSIG) FIXED SPEED ASSEMBLY DRAWING



DRIVE - 10 - 14 BARG (145 - 200 PSIG) PARTS LIST

Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
1	23591779	2	MOUNT, ISOLATION	18	47568288001	1	MOTOR, DRIVE - 50 hp, 380 V, 3PH, 60 Hz, IP55, 2P, IE3, INMETRO
2	23677693	1	MOUNT, MOTOR R37-45 kW (FIXED SPEED)		47568386001	1	MOTOR, DRIVE - 50 hp, 220/440 V, 3PH, 60 Hz, IP55, 2P, IE3, INMETRO
3	23877145	1	CABLE, EARTH GROUND 15" LG (4AWG)		47572363001	1	MOTOR, DRIVE - 30 kW, 380-415 V, 2P, 50 Hz, IP55, IE3
4	24248064	1	LOCKNUT		47572364001	1	MOTOR, DRIVE - 37 kW, 380-415 V, 2P, 50 Hz, IP55, IE3
5	39147194	14"	CONDUIT		47568396001	1	MOTOR, DRIVE - 40 hp, 200 V, 2P, 60 Hz, TEFC (IE3)
6	54564059	2	CONNECTOR		47568397001	1	MOTOR, DRIVE - 40 hp, 230/460 V, 2P, 60 Hz, TEFC (IE3)
7	54656905	4	TAPTITE SCREW		47568398001	1	MOTOR, DRIVE - 40 hp, 575 V, 2P, 60 Hz, TEFC (IE3)
8	47568140001	1	SEAL HOUSING, MOTOR SHAFT		47568399001	1	MOTOR, DRIVE - 50 hp, 200 V, 2P, 60 Hz, TEFC (IE3)
9	88142450	1	SEAL, SHAFT HIGH PRESSURE		47568401001	1	MOTOR, DRIVE - 50 hp, 230/460 V, 2P, 60 Hz, TEFC (IE3)
10	95023107	1	O-RING, STANDARD - 156 4.250 ID x 0.094 WIDTH		47568402001	1	MOTOR, DRIVE - 50 hp, 575 V, 2P, 60 Hz, TEFC (IE3)
11	95070272	1	O-RING, STANDARD -033 2 ID x 0.062 WIDTH		47568390001	1	MOTOR, DRIVE - 50 hp, 380 V, 3PH, 60 Hz, IP55, 2P, IE3, INMETRO
12	96707864	1	SCREW, HEX HEAD M20-2.50 x 40	19	47566696001	1	SPACER, CLAMP PLATE 55 mm BORE
13	96705660	4	SCREW, SOCKET HEAD M6 x 16	20	47564768001	1	SLEEVE, MOTOR SHAFT RS137 mm
14	96725130	5	SCREW, SOCKET HEAD M16 x 60	21	47539974001	2	BRACKET, SHIPPING
15	96738372	2	SCREW, HEX HEAD M16-2 x 25	22	47569097001	1	GEARSET, RATIO 0.769 - RS30IE, 10 BARG/ HIGH AMBIENT
16	96719836	2	SCREW, HEX HEAD M16-2 x 55		47569098001	1	GEARSET, RATIO 0.643 - RS30IE, 14 BARG/ RS30IE, 145 PSIG/ HIGH AMBIENT
17	96765169	9	WASHER, LOCK HELICAL SPRING M16		47569100001	1	GEARSET RATIO 0.917, RS37IE, 10 BARG
18	47568287001	1	MOTOR, DRIVE - 30 kW, 380-415 V, 3-PH, 50 Hz, IP55, 2P, IE3, FS		47569916001	1	GEARSET RATIO 0.797, RS37IE, 14 BARG/ RS37IE, 145 PSIG
	47568286001	1	MOTOR, DRIVE - 37 kW, 380-415 V, 3-PH, 50 Hz, IP55, 2P, IE3, FS		47569096001	1	GEARSET RATIO 0.533, RS30IE, 200 PSIG/ HIGH AMBIENT
	47568280001	1	MOTOR, DRIVE - 40 hp, 200 V, 3PH, 60 Hz, IP55, 2P, IE3, FS		47570870001	1	GEARSET, RATIO 0.667, RS37IE, 200 PSIG
	47568387001	1	MOTOR, DRIVE - 40 hp, 230/460V, 3PH, 60 Hz, IP55, 2P, IE3, FS	23	47564767001	1	GEARCASE, MACHINING 137 mm IG
	47568278001	1	MOTOR, DRIVE - 40 hp, 380 V, 3-PH, 60 Hz, IP55, 2P, IE3, FS	24	47534792001	1	GASKET, SEAL MOTOR - ADAPTER PLATE
	47568391001	1	MOTOR, DRIVE - 40 hp, 575 V, 3PH, 60 Hz, IP55, 2P, IE3, FS				
	47568281001	1	MOTOR, DRIVE - 50 hp, 200 V, 3PH, 60 Hz, IP55, 2P, IE3, FS				
	47568388001	1	MOTOR, DRIVE - 50 hp, 380 V, 3-PH, 60 Hz, IP55, 2P, IE3, FS				
	47568279001	1	MOTOR, DRIVE 50 hp, 380 V, 3-PH, 60 Hz, IP55, 2P, IE3, FS				
	47568392001	1	MOTOR, DRIVE - 50 hp, 575 V, 3PH, 60 Hz, IP55, 2P, IE3, FS				
	47568389001	1	MOTOR, DRIVE - 40 hp, 380 V, 3PH, 60 Hz, IP55, 2P, IE3, INMETRO				

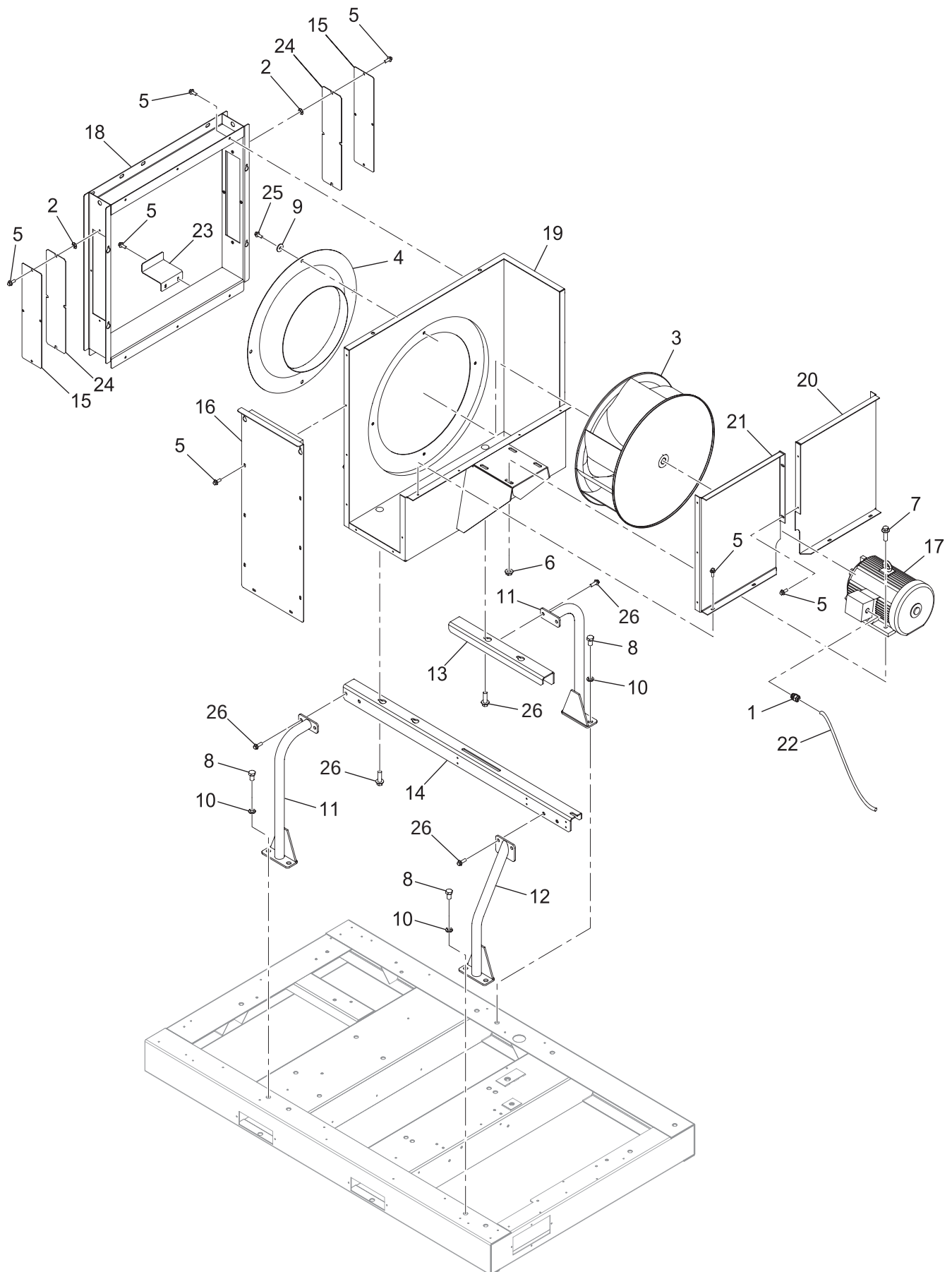
SEPARATOR TANK ASSEMBLY DRAWING



SEPARATOR TANK PARTS LIST

Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
1	23443765	1	VALVE, PRESSURE RELIEF 16 BAR, CE, M16 x 1.5	26	47521400001	1	ASSEMBLY, THERMAL VALVE 2.5" 180-198 °F
	23443773	1	VALVE, PRESSURE RELIEF 16 BAR, ASME/CRN, M16		47521436001	1	ASSEMBLY, THERMAL VALVE 2.5" 185-203 °F
	23443914	1	VALVE, PRESSURE RELIEF 16 BAR, GB, M22 (AP ONLY)	27	24261273	1	HOSE, ROTOR OIL INJECTION
2	23629058	1	ELBOW, 90 STREET M16 x 1.5 ISO 6149	28	47523289001	1	TUBE, 0.75 HSTCV TO OIL FILTER
	23500382	1	ELBOW, 90 STREET, M22 x 1.5 ISO 6149	29	47524521001	1	HOSE, BEARING OIL INJECTION, PTFE5/8ID DASH 12 x DASH 10
3	96757703	1	ELBOW, 90, 0.75 TUBE x M27	30	24261273	1	HOSE, SEP TANK TO TCV
4	47533370001	1	ELBOW, COMPRESSION P-IN MSW 1/4 BSPP x 6 mm TUBE	31	23388994	3	MOUNT, ISOLATION
5	23675010	1	ELEMENT, SEPARATOR TANK	32	23676489	3	SPACER, SHIPPING BRACE
6	22480404	1	CLAMP, 0.25" TUBE INSULATED	33	54656905	4	TAPTITE SCREW M10 x 1, 5 x 30
7	23413479	1	ADAPTER, THERMO-COUPLE	34	96704846	3	NUT, HEX FLANGE LOCK SERRATED M10-1.50
8	23685043	1	TUBE, SCAVENGE, 0.25 OD	35	96702329	4	SCREW, HEX HEAD M12-1.75 x 35
9	23709942	1	VALVE, ORIFICE/ CHECK	36	47521191001	1	TUBE, AIREND DISCHARGE
10	39917489	1	SCREW, HEX HEAD FLANGE M6 x 16 LONG	37	23404866	1	ASSEMBLY, SIGHT GLASS
11	47524195001	1	ELBOW, PUSH CONNECT (12 mm) (KIT)	38	24071771	1	DECAL, ULTRA EL FILTER CAP 1.125" DIA
	47546906001	1	ELBOW, PUSH CONNECT (10 mm) (KIT)		23540586	1	PLUG OIL FILL ULTRA COOLANT
12	23522253	1	SENSOR, TEMPERATURE THERMISTOR	39	23980840	1	PLUG OIL FILL (M27 x 2 - ISO 6149-3)
13	23935836	1	CONNECTOR, REDUCING (M14 x 1.5 - M12 x 1.5)	40	24096901	1	VALVE, DRAIN M 22 x 1.5
14	24093767	1	SUPPORT, OIL FILTER	41	47531389001	1	TANK, SEPARATOR 2.5" RS30- 37 kW - ASME, CRN, NR-13
15	24900359	1	FILTER, COOLANT		47520744001	1	TANK, SEPARATOR 2.5" RS30-37 kW - CE
16	49100365	2	FITTING, 6 mm TUBE COMPRESSION, M14 x 1.5 ISO 6149 STUD		49061864001	1	TANK, SEPARATOR 2.5" RS30-37 kW - GB150
17	96704416	2	NUT, HEX FLANGE LOCK SERRATED M8 - 1.25		47531390001	1	TANK, SEPARATOR 2.5" RS30-37 kW - PACIFIC RIM (AS1210 AND ASME-MOM, DOSH)
18	96712153	2	SCREW, HEX HEAD FLANGE M8 x 25		47531392001	1	TANK, SEPARATOR 2.5" RS30-37 kW - TUV
19	96737549	2	SCREW, HEX HEAD FLANGE M10 x 20	42	24437576	1	HOSE, HYDRAULIC 0.25 x 26 ORFS STRAIGHT x ORFS 90 ELBOW
20	96758065	4	CONNECTOR .75 TUBE x M27		23877160	1	CABLE, EARTH GROUND 50 "
21	96759295	1	O-RING, M12 x 1.5, 9.300 ID x 2.200 WIDTH	44	96758867	1	ELBOW, 45, 0.75 TUBE x M27
22	96769195	1	TEE, RUN ORFS 0.75	45	24096984	1	HOSE, DRAIN ASSEMBLY
23	95961496	4	FLANGE CLAMP, SPLIT HALF 2.50 NOMINAL	46	47534480001	2	CLIP, PLASTIC
24	96745062	4	SCREW, HEX HEAD FLANGE M12 x 75	47	96702329	4	SCREW, HEX HEAD M12 x 35 PLATED
25	96957360	3	O-RING, STANDARD				
26	47533620001	1	ASSEMBLY, THERMAL VALVE 2.5" 170-190 °F				

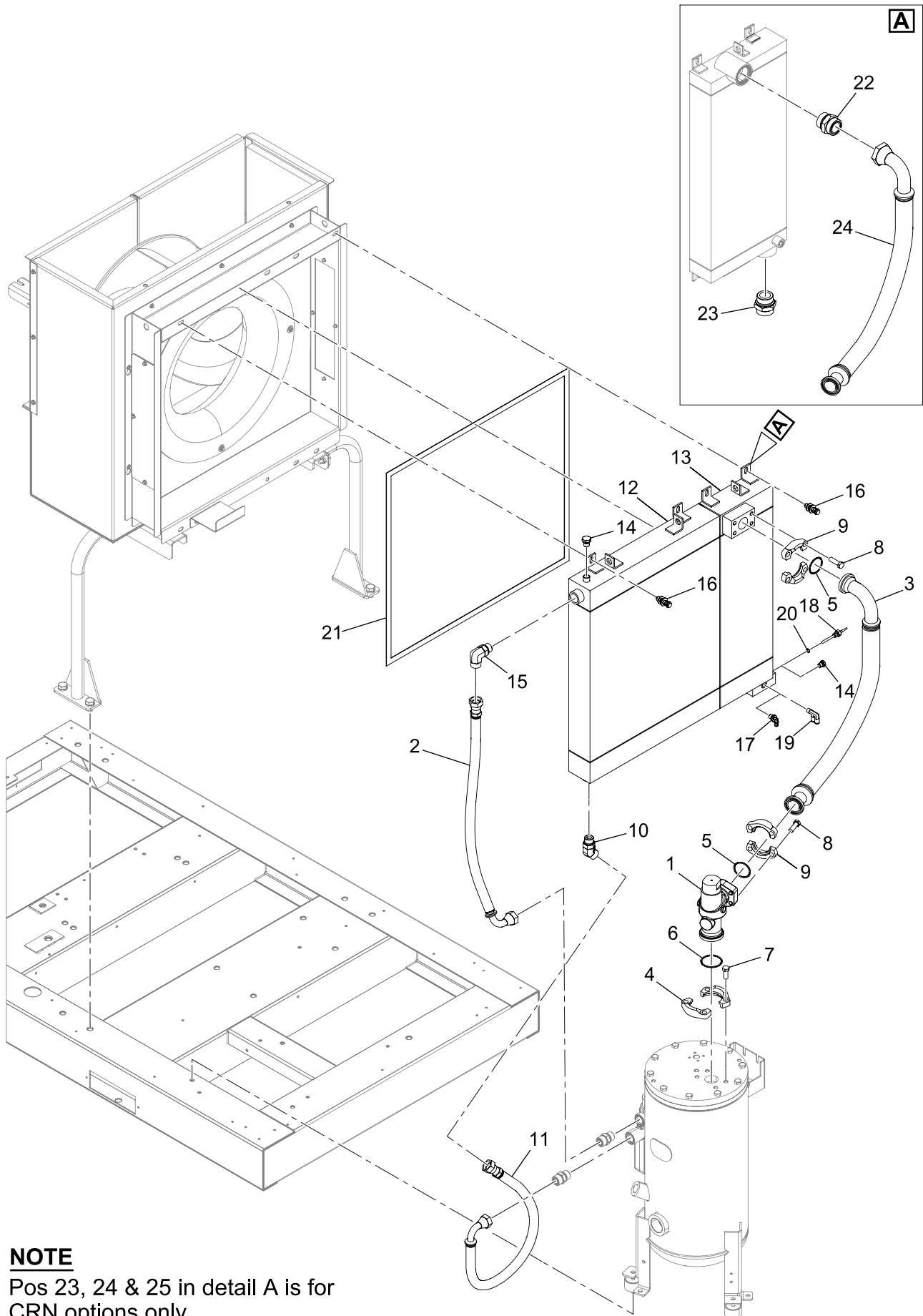
BLOWER ASSEMBLY DRAWING



BLOWER PARTS LIST

Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
1	22245666	1	GLAND, CABLE	17	47524321003	1	MOTOR, BLOWER, 575 V, 60 Hz
2	23523491	8	RETAINER, 6 mm SCREW		47524321004	1	MOTOR, BLOWER 220-240/380-415 V, 50 Hz
3	24145039	1	BLOWER, 60 Hz		47524321005	1	MOTOR, BLOWER 380 V 50 Hz
	24687410	1	BLOWER, 50 Hz	18	47541489001	1	SHROUD, COOLER RS30-37 kW (CRN)
4	24145047	1	CONE, INLET BLOWER - 60 Hz		47530001001	1	SHROUD, COOLER RS30-37 kW
	23728215	1	CONE, INLET BLOWER - 50 Hz	19	47530170001	1	ASSEMBLY, BLOWER HOUSING W/FOAM - 60 Hz FS AND VSD
5	39917489	39	SCREW, HEX HEAD M6 x 16		47530003001	1	ASSEMBLY, BLOWER HOUSING W/FOAM - 50 Hz FS AND VSD
6	96704846	4	NUT, HEX FLANGE LOCK SERRATED M10-1.50 - 60 Hz	20	47530173001	1	PANEL, BACK BLOWER HOUSING LEFT - 60 Hz
	96704416	4	NUT, HEX FLANGE LOCK SERRATED M8-1.25 - 50 Hz		47530007001	1	PANEL, BACK BLOWER HOUSING LEFT - 50 Hz
7	96718663	4	SCREW, HEX HEAD FLANGE M10 x 30 - 60Hz	21	47530174001	1	PANEL, BACK BLOWER HOUSING RIGHT - 60 Hz
	96712682	4	SCREW, HEX HEAD FLANGE M8 x 30 - 50Hz		47530008001	1	PANEL, BACK BLOWER HOUSING RIGHT - 50 Hz
8	96738372	6	SCREW HEX HEAD M16 x 25	22	47531748001	1	CABLE, BLOWER MOTOR
9	96745559	4	WASHER - 50 Hz	23	47531755001	1	BRACKET, COOLER SUPPORT
	96745559	6	WASHER - 60 Hz	24	47534138001	2	GASKET, COVER BLOWER HOUSING
10	96765169	6	WASHER	25	39917489	4	SCREW, HEX HEAD M6 x 16 - 50 Hz
11	47522858001	2	LEG, BLOWER HOUSING		39917489	6	SCREW, HEX HEAD M6 x 16 - 60 Hz
12	47522891001	1	LEG, BLOWER HOUSING	26	96718663	10	SCREW, HEX HEAD FLANGE M10 x 30
13	47522892001	1	CHANNEL, FRONT BLOWER HOUSING				
14	47522893001	1	CHANNEL, REAR BLOWER HOUSING				
15	47523467001	2	COVER, SHROUD				
16	47523565001	1	ASSEMBLY, BLOWER HOUSING REAR PANEL - 60 Hz				
	47523551001	1	ASSEMBLY, BLOWER HOUSING REAR PANEL - 50 Hz				
17	47524321001	1	MOTOR, BLOWER, 220-240/380-415 V, 50 Hz				
	47524321002	1	MOTOR, BLOWER, 200-230/380/440-460 V, 60 Hz				

COOLER (AIR-COOLED) ASSEMBLY DRAWING



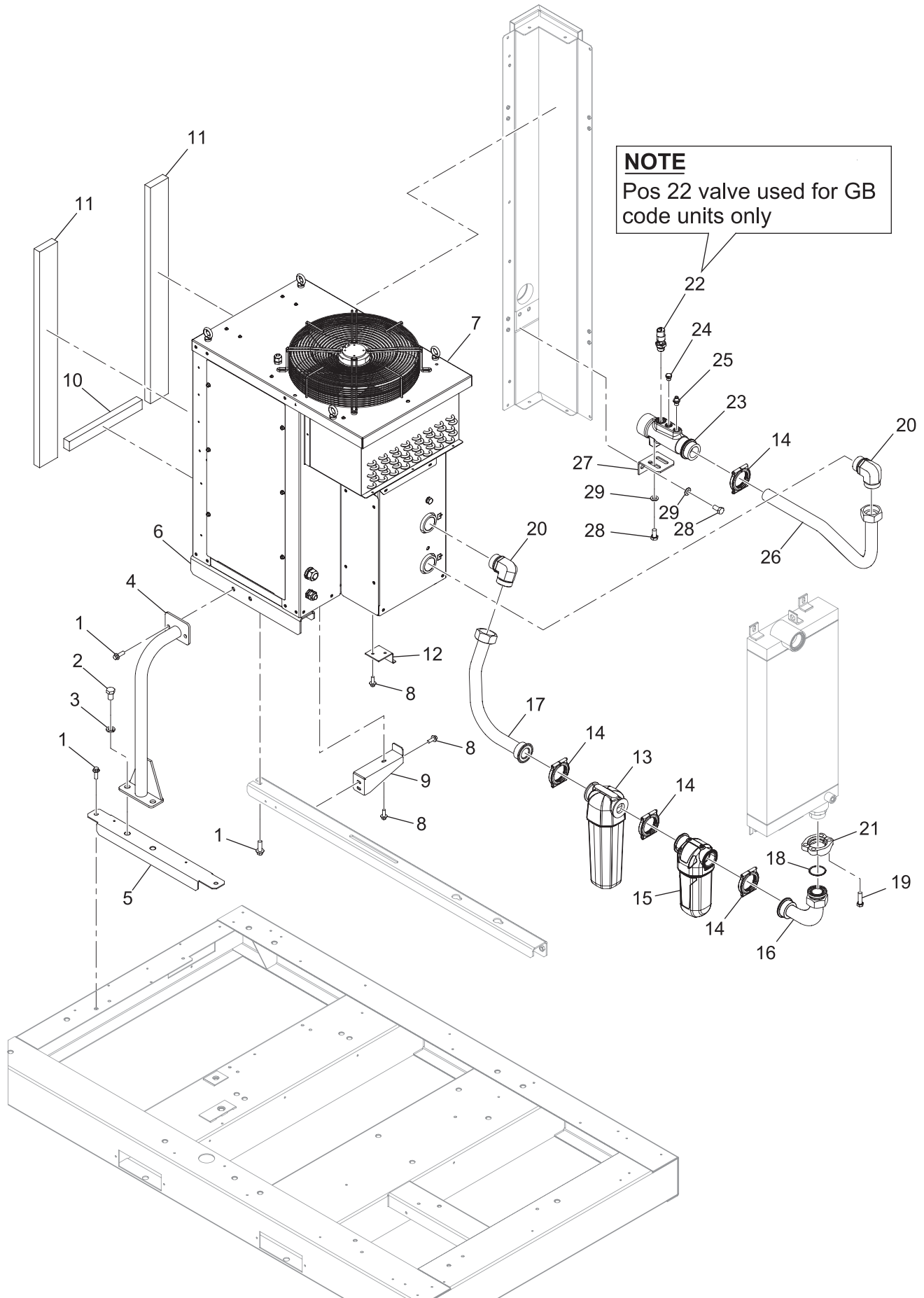
NOTE

Pos 23, 24 & 25 in detail A is for CRN options only

COOLER (AIR-COOLED) PARTS LIST

Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
1	23388135	1	VALVE, MPCV	13	47525068001	1	COOLER, AIR
2	24261265	1	HOSE, -12 OIL COOLER OUTLET		47541487001	1	COOLER, AIR (CRN)
	24262123	1	HOSE, -12 OIL COOLER OUTLET (CRN)	14	96757000	1	PLUG
3	85576643	1	HOSE, -24, AFTER-COOLER INLET	15	96757703	1	ELBOW, 90
4	95973434	2	FLANGE CLAMP, SPLIT	16	47541111001	8	COOLER MOUNTING CONNECTION
5	95987970	2	O-RING	17	96759550	1	ELBOW, PUSHING 1/4 x 6 mm TUBE
6	95987988	1	O-RING		47534737001	1	PLUG
7	96702311	4	SCREW, HEX HEAD M12-1.75 x 30	18	23522246	1	SENSOR, TEMPERATURE THERMISTOR
8	96702444	8	SCREW, HEX HEAD M12-1.75 x 40	19	96759550	1	ELBOW, PUSHING 1/4 X 6 mm TUBE
	96702444	4	SCREW, HEX HEAD M12-1.75 x 40 - CRN		92794262	1	ELBOW, DOUBLE
9	96955166	4	FLANGE CLAMP, SPLIT	20	96759295	1	O-RING
	96955166	2	FLANGE CLAMP, SPLIT - CRN	21	39117312	A/R	GASKET, STRIP
10	96758867	1	ELBOW, 45	22	96758115	1	CONNECTOR 1.50 TUBE x M48 - CRN
11	24262123	1	HOSE, -12 OIL COOLER INLET	23	96758321	1	CONNECTOR 1.50 TUBE x M48 - CRN
12	47525069001	1	COOLER, OIL	24	23416712001	1	HOSE, -24, AFTER-COOLER INLET - CRN
	47541488001	1	COOLER, OIL (CRN)				
				A/R	AS REQUIRED		

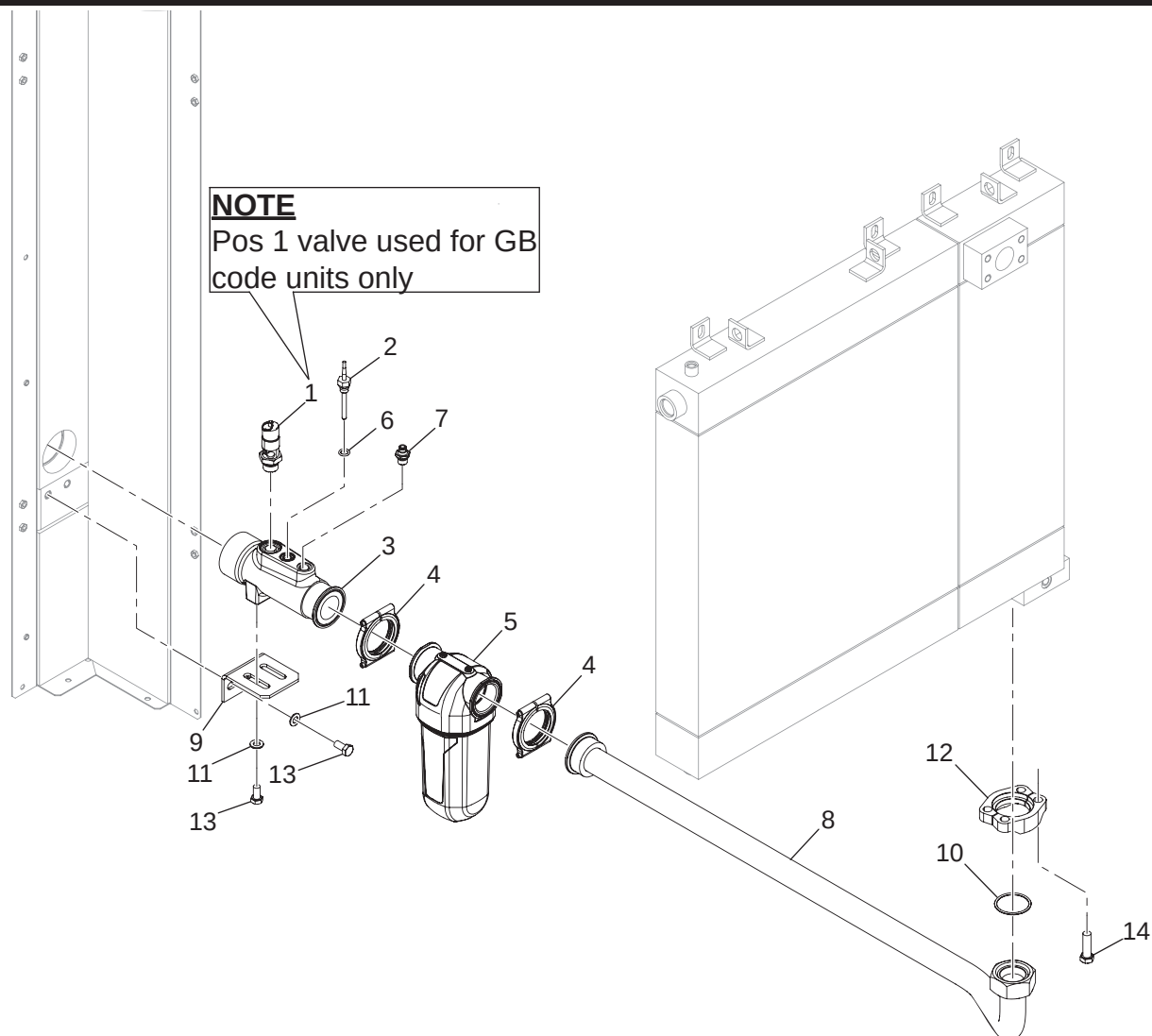
CUSTOMER CONNECTION (W/ DRYER) ASSEMBLY DRAWING



CUSTOMER CONNECTION (W/ DRYER) PARTS LIST

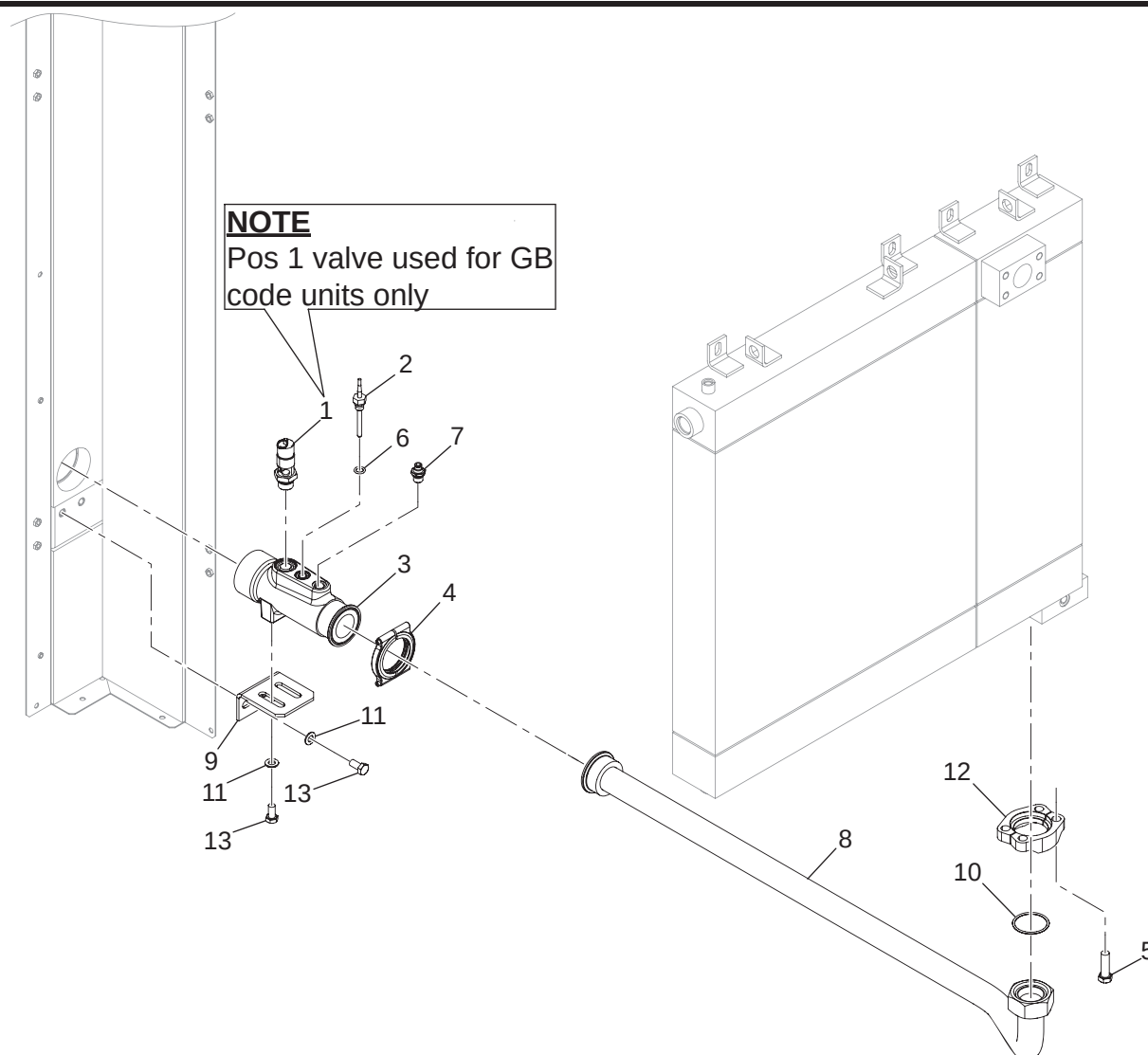
Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
1	96718663	7	SCREW, HEX HEAD FLANGE M10 x 30	17	47523304001	1	TUBE, DRYER
2	96738372	2	SCREW, HEX HEAD M16-2 x 25	18	95987970	1	O-RING
3	96765169	2	LOCKWASHER	19	96702444	4	SCREW, HEX HEAD M12-1.75 x 40
4	47522942001	1	LEG, DRYER SUPPORT	20	96761069	2	ELBOW, 90
5	47522943001	1	SUPPORT, DRYER LEG	21	96955166	2	FLANGE CLAMP, SPLIT
6	47523387001	1	CHANNEL, DRYER	22	23443922	1	VALVE, PRESSURE RELIEF - 8.5 BAR, GB, M22
7	49069552001	1	DRYER, INTEGRATED - RS30-37IE, R134A, 230 V/3/60 Hz		23443930	1	VALVE, PRESSURE RELIEF - 9.5 BAR, GB, M22
	49069545	1	DRYER, INTEGRATED - RS30-37IE, R134A, 380 V/3/60 Hz		23443948	1	VALVE, PRESSURE RELIEF - 11 BAR, GB, M22
	24903387	1	DRYER, INTEGRATED - RS30-37IE, R134A, 460 V/3/60 Hz		23443955	1	VALVE, PRESSURE RELIEF - 15.4 BAR, GB, M22
	24903379	1	DRYER, INTEGRATED - RS30-37IE, R134A, 400 V/3/50 Hz	23	23987985	1	MANIFOLD, PACKAGE AIR DISCHARGE (MACHINING - 1.5" BSPT)
8	39917489	8	SCREW, HEX HEAD FLANGE M6 x 16		47558848001	1	MANIFOLD, PACKAGE AIR DISCHARGE (MACHINING - 1.5" BSPT CHINA)
9	47522941001	2	BRACKET, DRYER SUPPORT		23987977	1	MANIFOLD, PACKAGE AIR DISCHARGE (MACHINING - 1.5" NPT)
10	47522944001	1	FOAM, DRYER (BOTTOM)	24	96757000	1	PLUG
11	47522945001	2	FOAM, DRYER (LEFT/ RIGHT)	25	96759634	1	CONNECTOR
12	47523528001	1	BRACKET, DRYER GUIDE	26	47522975001	1	TUBE, DRYER OUTLET
13	24232472	1	FILTER	27	23798499	1	SUPPORT, CUSTOMER CONNECTION
**	24242273	1	ELEMENT, FILTER	28	96702279	4	SCREW, HEX HEAD M10-1.50 x 20
14	24361933	4	CLAMP, KIT	29	96714399	4	FLATWASHER
15	24728149	1	SEPARATOR MOISTURE				
16	47523303001	1	TUBE, AFTER-COOLER DISCHARGE (W/ DRYER)				
	47542022001	1	TUBE, AFTER-COOLER DISCHARGE, W/ DRYER, GHT - CRN				

CUSTOMER CONNECTION (W/O DRYER) ASSEMBLY DRAWING AND PARTS LIST



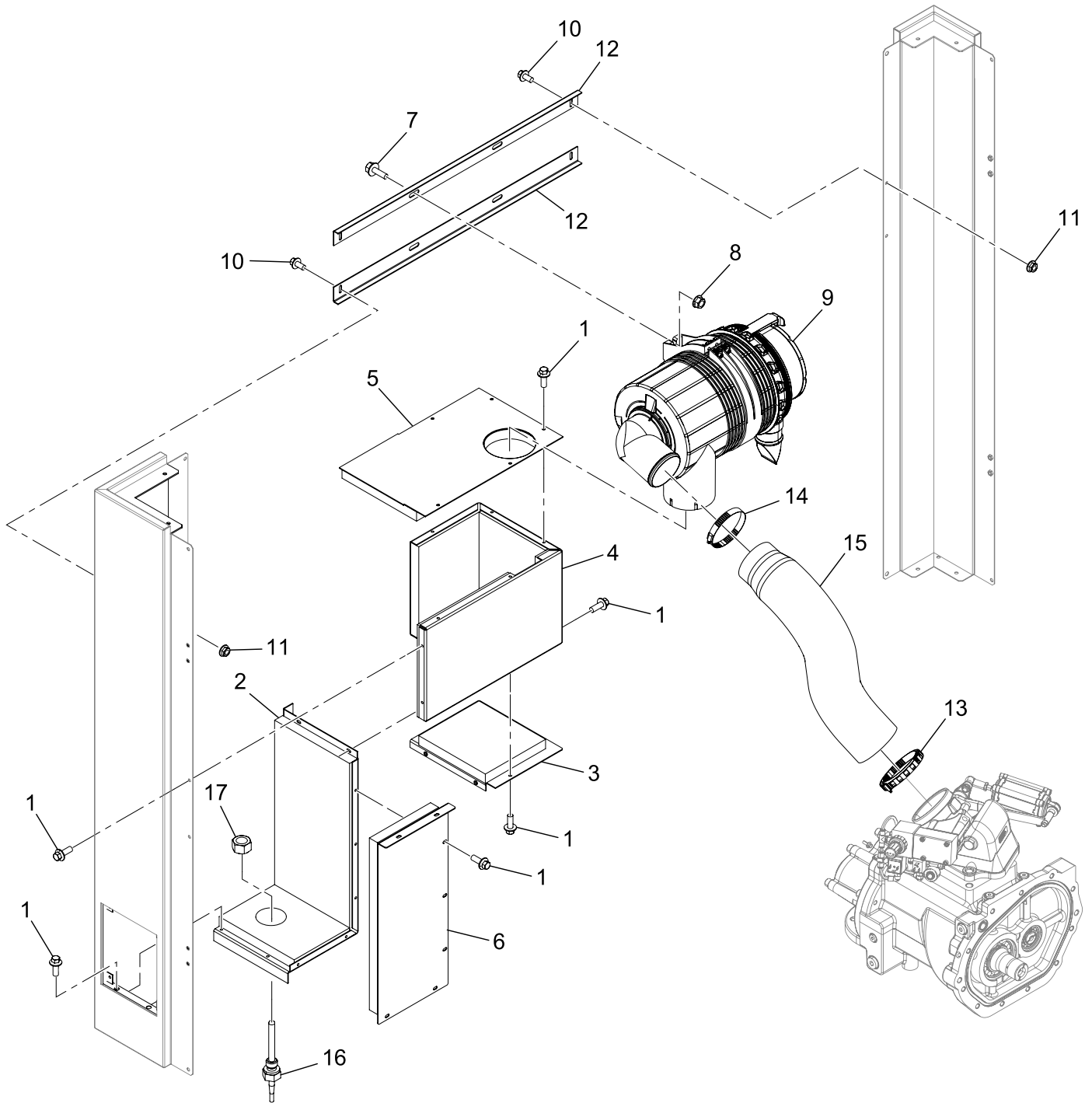
Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
1	23443922	1	VALVE, PRESSURE RELIEF - 8.5 BAR, GB, M22	4	24361933	2	CLAMP, KIT
	23443930	1	VALVE, PRESSURE RELIEF - 9.5 BAR, GB, M22	5	24728149	1	SEPARATOR, MOISTURE
	23443948	1	VALVE, PRESSURE RELIEF - 11 BAR, GB, M22	6	96759295	1	O-RING
	23443955	1	VALVE, PRESSURE RELIEF - 15.4 BAR, GB, M22	7	96759634	1	CONNECTOR
2	23522246	1	SENSOR, TEMPERATURE THERMISTOR	8	47523020001	1	TUBE, AFTER-COOLER (NO DRYER)
3	23987985	1	MANIFOLD, PACKAGE AIR DISCHARGE (MACHINING - 1.5 INCH, BSPT)		47542021001	1	TUBE, AFTER-COOLER DISCHARGE, GHT - CRN
	47558848001	1	MANIFOLD, PACKAGE AIR DISCHARGE (MACHINING - 1.5 INCH, BSPT CHINA)	9	23798499	1	SUPPORT, CUSTOMER CONNECTION
	23987977	1	MANIFOLD, PACKAGE AIR DISCHARGE (MACHINING - 1.5 INCH, NPT)	10	95987970	1	O-RING
				11	96714399	4	WASHER
				12	96955166	2	FLANGE CLAMP, SPLIT
				13	96702279	4	SCREW, HEX HEAD M10-1.50 x 20
				14	96702444	4	SCREW, HEX HEAD M12-1.75 x 40

CUSTOMER CONNECTION (W/O DRYER AND W/O MOISTURE SEPARATOR) ASSEMBLY DRAWING AND PARTS LIST



Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
1	23443922	1	VALVE, PRESSURE RELIEF - 8.5 BAR, GB, M22	4	24361933	1	CLAMP, KIT
	23443930	1	VALVE, PRESSURE RELIEF - 9.5 BAR, GB, M22	5	96702444	4	SCREW, HEX HEAD M12-1.75 x 40
	23443948	1	VALVE, PRESSURE RELIEF - 11 BAR, GB, M22	6	96759295	1	O-RING
	23443955	1	VALVE, PRESSURE RELIEF - 15.4 BAR, GB, M22	7	96759634	1	CONNECTOR
2	23522246	1	SENSOR, TEMPERATURE THERMISTOR	8	47525074001	1	TUBE, AFTER-COOLER (NO DRYER)
3	23987985	1	MANIFOLD, PACKAGE AIR DISCHARGE (MACHINING - 1.5 INCH, BSPT)		47542020001	1	TUBE, AFTER-COOLER DISCHARGE, GHT - CRN
	47558848001	1	MANIFOLD, PACKAGE AIR DISCHARGE (MACHINING - 1.5 INCH, BSPT CHINA)	9	23798499	1	SUPPORT, CUSTOMER CONNECTION
	23987977	1	MANIFOLD, PACKAGE AIR DISCHARGE (MACHINING - 1.5 INCH, NPT)	10	95987970	1	O-RING
				11	96714399	4	WASHER
				12	96955166	2	FLANGE CLAMP, SPLIT
				13	96702279	4	SCREW, HEX HEAD M10-1.50 x 20

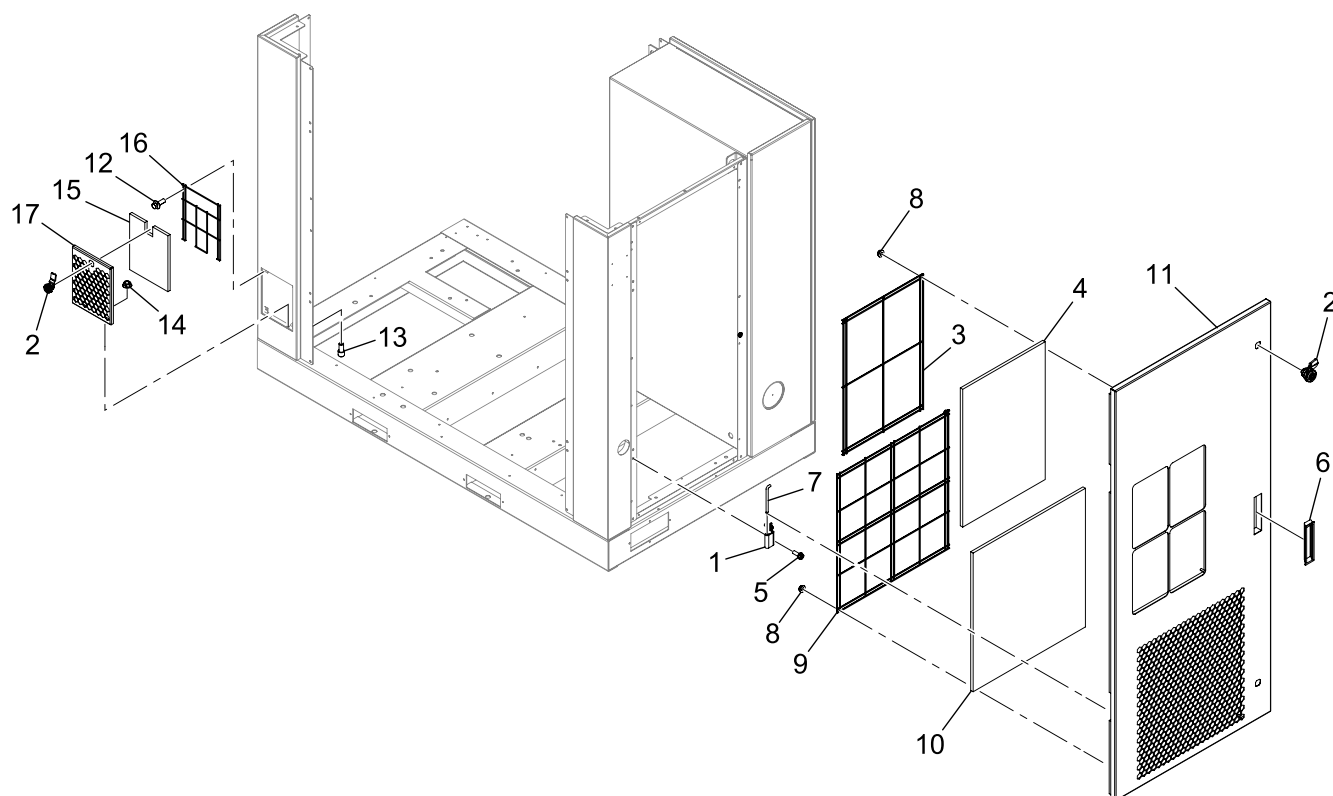
AIR FILTER (FIXED SPEED) ASSEMBLY DRAWING



AIR FILTER (FIXED SPEED) PART LIST

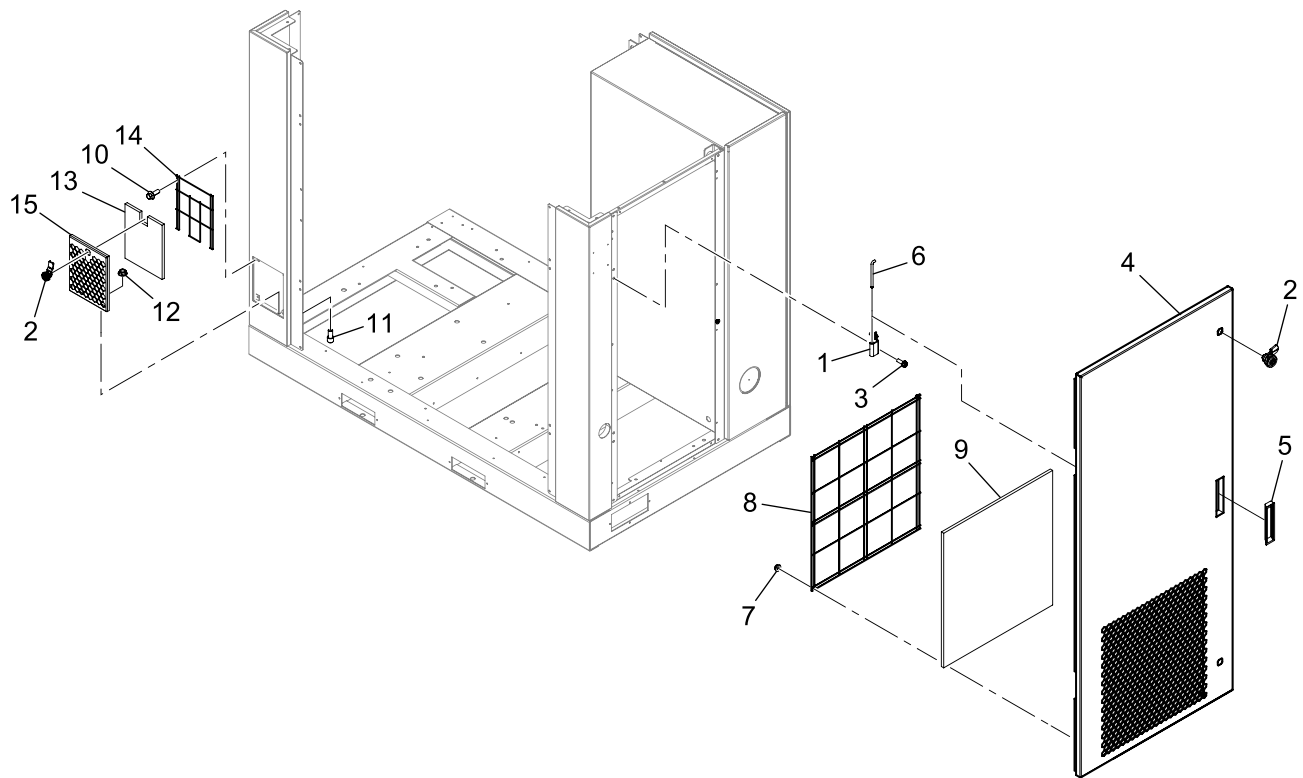
Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
1	39917489	27	SCREW	10	96705058	4	SCREW HEX HEAD FLANGE M6 x 12
2	47524375001	1	ASSEMBLY, INLET FILTER DUCT BOTTOM BOX	11	96737564	4	NUT
3	47524373001	1	ASSEMBLY, BOTTOM PANEL INLET FILTER DUCT TOP BOX - STANDARD	12	47523535001	2	SUPPORT, AIR FILTER
	47540307001	1	ASSEMBLY, BOTTOM PANEL INLET FILTER DUCT TOP BOX - HIGH DUST	13	39123013	1	CLAMP, WORM 4.5" - 30 kW
4	47524370001	1	ASSEMBLY, INLET FILTER DUCT TOP BOX - STANDARD		39110556	1	CLAMP, WORM 6.0" - 37 kW
	47540301001	1	ASSEMBLY, INLET FILTER DUCT TOP BOX - HIGH DUST	14	39123013	1	CLAMP, WORM 4.5"
5	47524371001	1	ASSEMBLY, TOP PANEL INLET FILTER DUCT TOP BOX - STANDARD	15	47525022001	1	HOSE, INLET FLEX RS30IE - 30 kW, STANDARD, AP ONLY
	47540304001	1	ASSEMBLY, TOP PANEL INLET FILTER DUCT TOP BOX - HIGH DUST		4752502300	1	HOSE, INLET FLEX RS37IE 37 kW, STANDARD, AP ONLY
6	47524378001	1	ASSEMBLY, FRONT PANEL INLET FILTER DUCT BOTTOM BOX		47524523001	1	HOSE, INLET FILTER TO INLET VALVE - 30 kW, STANDARD
7	39128483	2	SCREW, WHIZ LOCK		47524524001	1	HOSE, INLET FILTER TO INLET VALVE - 30 kW, STANDARD
8	39128566	2	NUT		47540312001	1	HOSE, INLET FILTER TO INLET VALVE - 37 kW, HIGH DUST
9	49101637	1	FILTER, AIR (STANDARD)		47540313001	1	HOSE, INLET FILTER TO INLET VALVE - 30 kW, HIGH DUST
	49174758	1	FILTER, AIR (HIGH DUST)	16	23522238	1	SENSOR, TEMPERATURE THERMISTOR
				17	96724422	1	NUT

PRE-FILTER (STANDARD) W/ DRYER ASSEMBLY DRAWING AND PARTS LIST



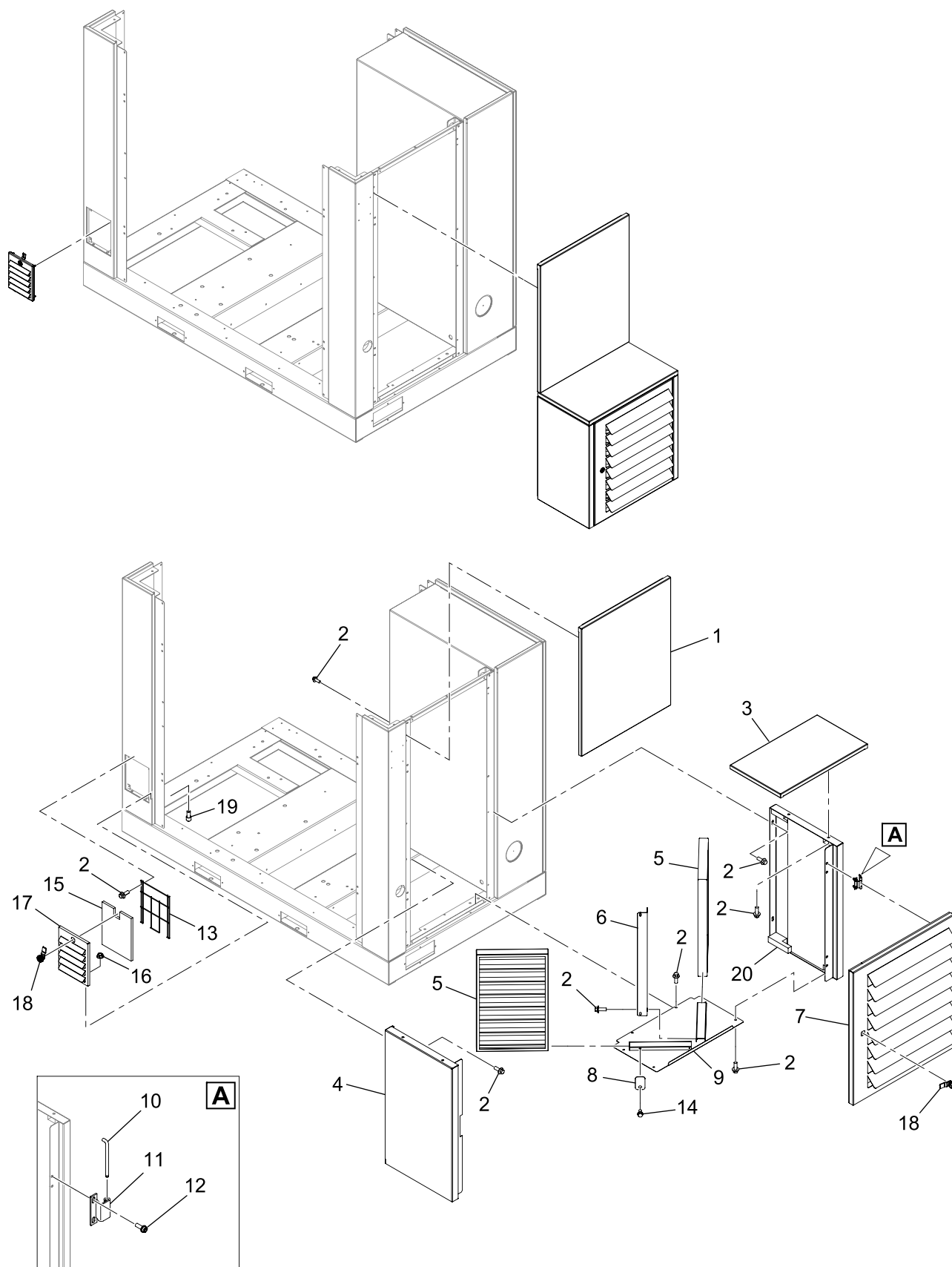
Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
1	22159842	2	HINGE, DOOR	10	47524431001	1	PAD, PRE FILTER, LOWER
2	23180565	3	LATCH	11	47524434001	1	ASSEMBLY, PACKAGE INTAKE DOOR
3	23835507	1	GRILL, INTAKE, UPPER	12	39917489	4	SCREW
4	23835515	1	PAD, PRE-FILTER, UPPER	13	88143185	2	PIN
5	24718223	4	SCREW	14	96737564	2	NUT
6	39491147	1	HANDLE, DOOR	15	47524186001	1	PAD, PRE FILTER
7	93580140	2	HINGE, PIN	16	47524188001	1	GRILL, INTAKE
8	96737564	8	NUT	17	47524319001	1	DOOR, PRE FILTER
9	47524348001	1	GRILL, INTAKE, LOWER				

PRE-FILTER (STANDARD) W/O DRYER ASSEMBLY DRAWING AND PARTS LIST



Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
1	22159842	2	HINGE, DOOR	8	47524348001	1	GRILL, INTAKE PACKAGE
2	23180565	3	LATCH, DOOR	9	47524431001	1	PAD, PRE FILTER
3	24718223	4	SCREW	10	39917489	4	SCREW
4	24822421	1	ASSEMBLY, PACKAGE INTAKE DOOR (WITH FOAM)	11	88143185	2	PIN
5	39491147	1	HANDLE, DOOR	12	96737564	2	NUT
6	93580140	2	HINGE, PIN	13	47524186001	1	PAD, PRE FILTER
7	96737564	4	NUT	14	47524188001	1	GRILL, INTAKE
				15	47524319001	1	DOOR, PRE FILTER

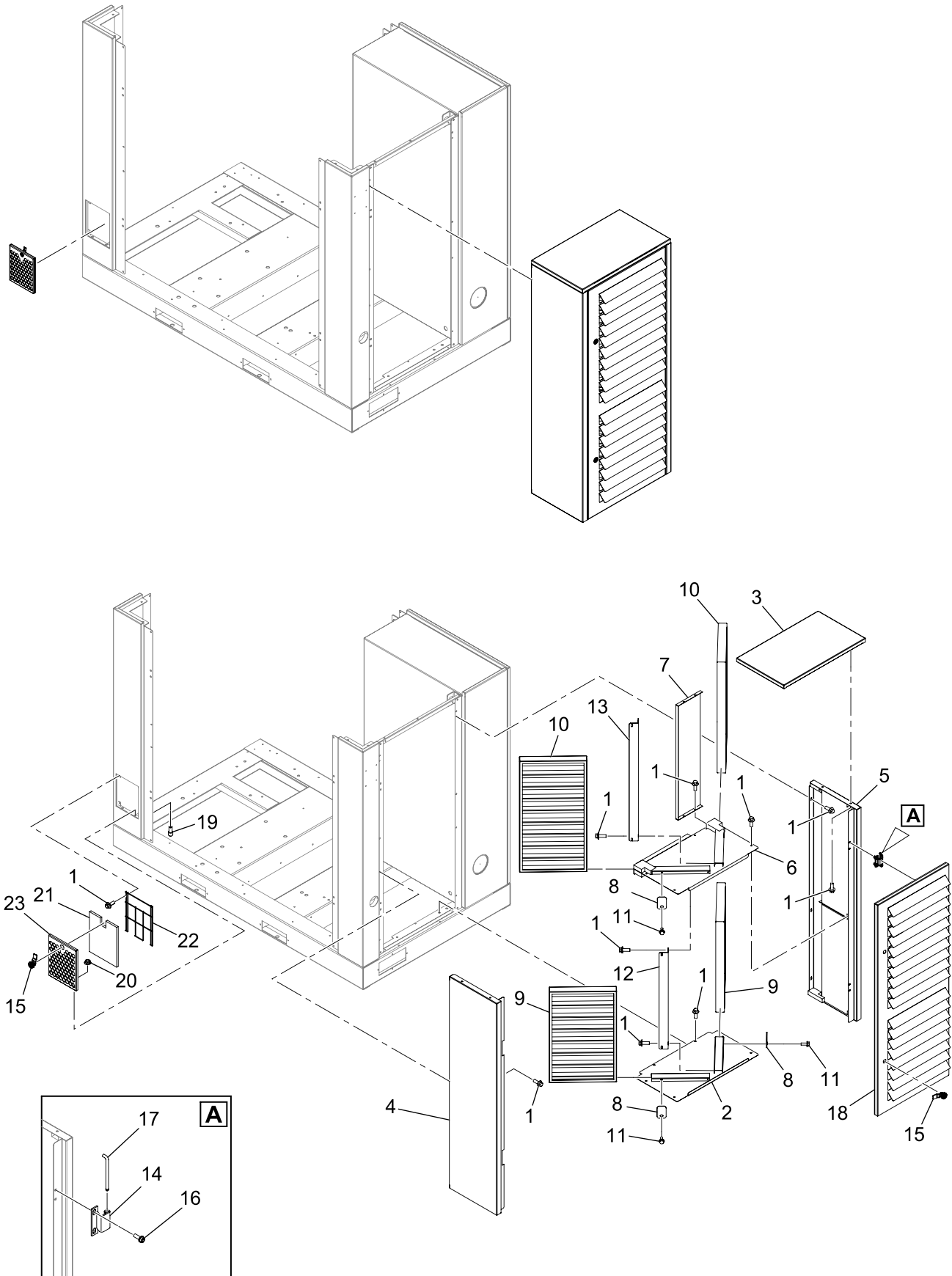
PRE-FILTER HIGH DUST (NO DRYER) ASSEMBLY DRAWING



PRE-FILTER HIGH DUST (NO DRYER) PARTS LIST

Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
1	47540520001	1	PANEL, TOP	11	22159842	2	HINGE, DOOR
2	39917489	26	SCREW	12	24718223	4	SCREW, HINGE
3	47540530001	1	PANEL, TOP	13	47524188001	1	GRILL, INTAKE
4	47540523001	1	ASSEMBLY, LEFT PANEL	14	96742689	8	SCREW
5	23909229	2	FILTER, PANEL AIR	15	47524186001	1	PAD, PRE FILTER - ODM
6	47540532001	1	ANGLE, PRE-FILTER	16	96737564	2	NUT
7	47540533001	1	DOOR, PACKAGE INTAKE	17	47535699001	1	DOOR, INLET - ODM
8	23517519	8	TAB, FILTER PANEL	18	23180565	2	LATCH, DOOR
9	47540527001	1	PANEL, BOTTOM	19	88143185	2	PIN
10	93580140	2	PIN, HINGE	20	47540541001	1	ASSEMBLY, RIGHT PANEL

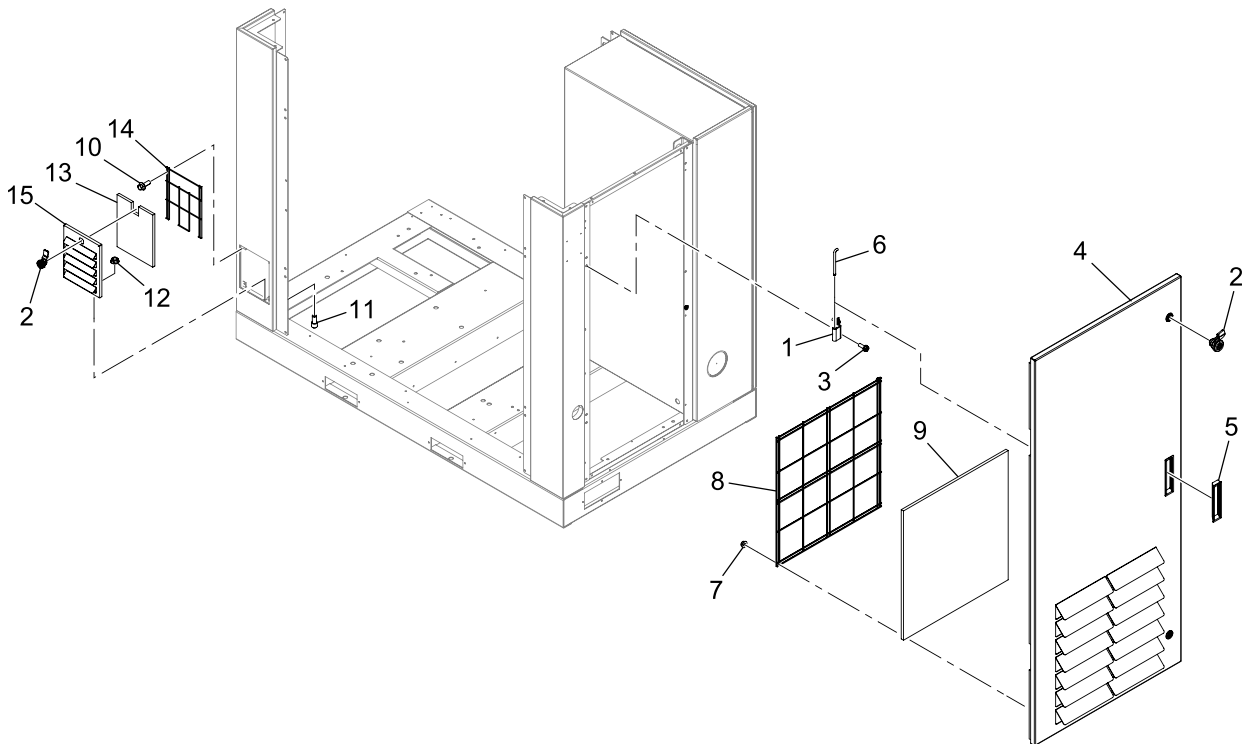
PRE-FILTER HIGH DUST (W/ DRYER) ASSEMBLY DRAWING



PRE-FILTER HIGH DUST (W/ DRYER) PARTS LIST

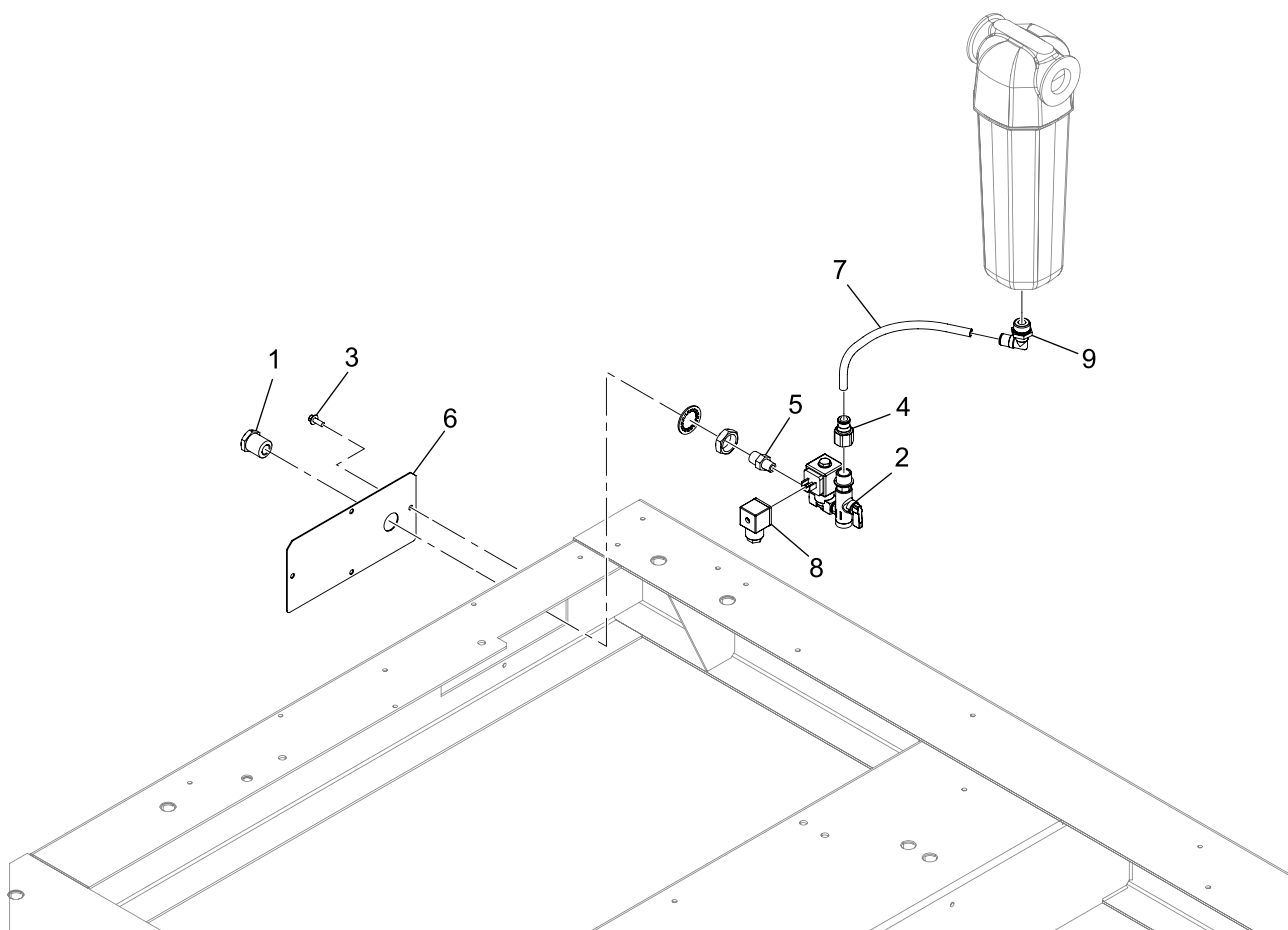
Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
1	39917489	36	SCREW	13	47540807001	1	ANGLE, PRE-FILTER, UPPER
2	47540527001	1	PANEL, BOTTOM	14	22159842	2	HINGE, DOOR
3	47540530001	1	PANEL, TOP	15	23180565	3	LATCH, DOOR
4	47540788001	1	ASSEMBLY, LEFT PANEL (WITH FOAM)	16	24718223	4	SCREW
5	47540794001	1	ASSEMBLY, RIGHT PANEL (WITH FOAM)	17	93580140	2	HINGE, PIN
6	47540800001	1	ASSEMBLY, MIDDLE PANEL (WITH FOAM)	18	47540802001	1	ASSEMBLY, PACKAGE INTAKE DOOR (WITH FOAM)
7	47540806001	1	PANEL, AIR BLOCK	19	88143185	2	PIN
8	23517519	16	TAB, FILTER PANEL	20	96737564	2	NUT
9	23909229	2	FILTER, PANEL AIR, LOWER	21	47524186001	1	PAD, PRE FILTER
10	23924269	2	FILTER, PANEL AIR, UPPER	22	47524188001	1	GRILL, INTAKE
11	96742689	16	BOLT	23	47524319001	1	DOOR, PRE FILTER
12	47540532001	1	ANGLE, PRE-FILTER, LOWER				

PRE-FILTER (STANDARD) W/ ODM ASSEMBLY DRAWING AND PARTS LIST



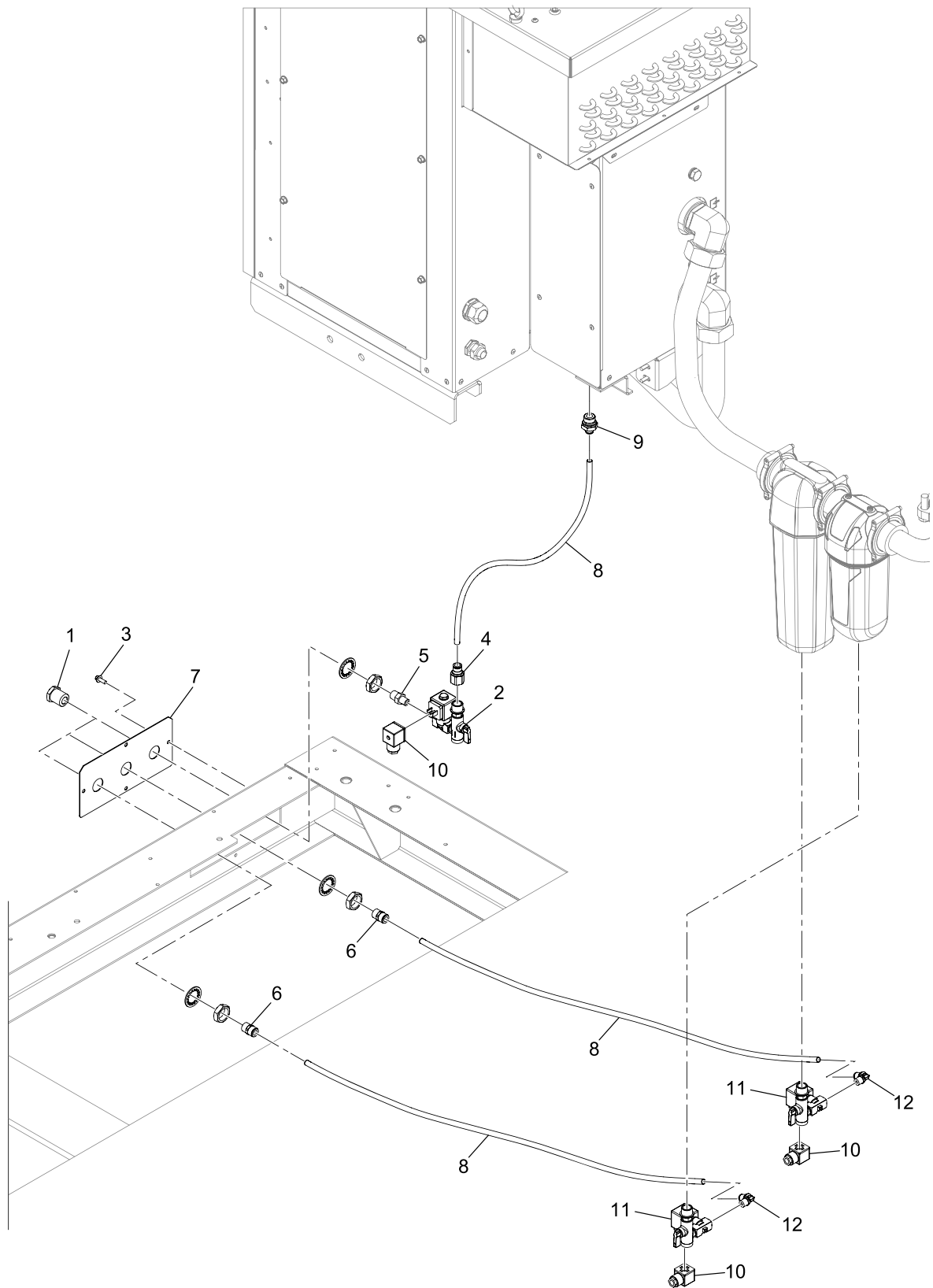
Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
1	22159842	2	HINGE, DOOR	9	47524431001	1	PAD, PRE FILTER
2	23180565	3	LATCH, DOOR	10	39917489	4	SCREW
3	24718223	4	SCREW	11	88143185	2	PIN
4	47535700001	1	ASSEMBLY, PACKAGE INTAKE DOOR - ODM	12	96737564	2	NUT
5	39491147	1	HANDLE, DOOR	13	47524186001	1	PAD, PRE FILTER
6	93580140	2	HINGE, PIN	14	47524188001	1	GRILL, INTAKE
7	96737564	4	NUT	15	47535699001	1	DOOR, INLET PREFILTER-ODM
8	47524348001	1	GRILL, INTAKE PACKAGE				

CONDENSATE STANDARD - W/O DRYER ASSEMBLY DRAWING AND PARTS LIST



Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
1	22219026	1	CONNECTOR, BULKHEAD 3/8" NPT	6	47528077001	1	PLATE, CONDENSATE
	47536456001		CONNECTOR, BULKHEAD 3/8" BSPT	7	23452311	A/R	TUBE
2	23434830	1	VALVE, SOLENOID	8	47539256001	1	ASSEMBLY, CABLE
3	39917489	4	SCREW	9	47542816001	1	ELBOW
4	49140668	1	CONNECTOR	A/R AS REQUIRED			
5	95916011	1	NIPPLE, 3/8" NPT x 1/4" NPT				
	47536455001	1	NIPPLE, 3/8" BSPT x 1/4" NPT				

CONDENSATE STANDARD - W/ DRYER ASSEMBLY DRAWING

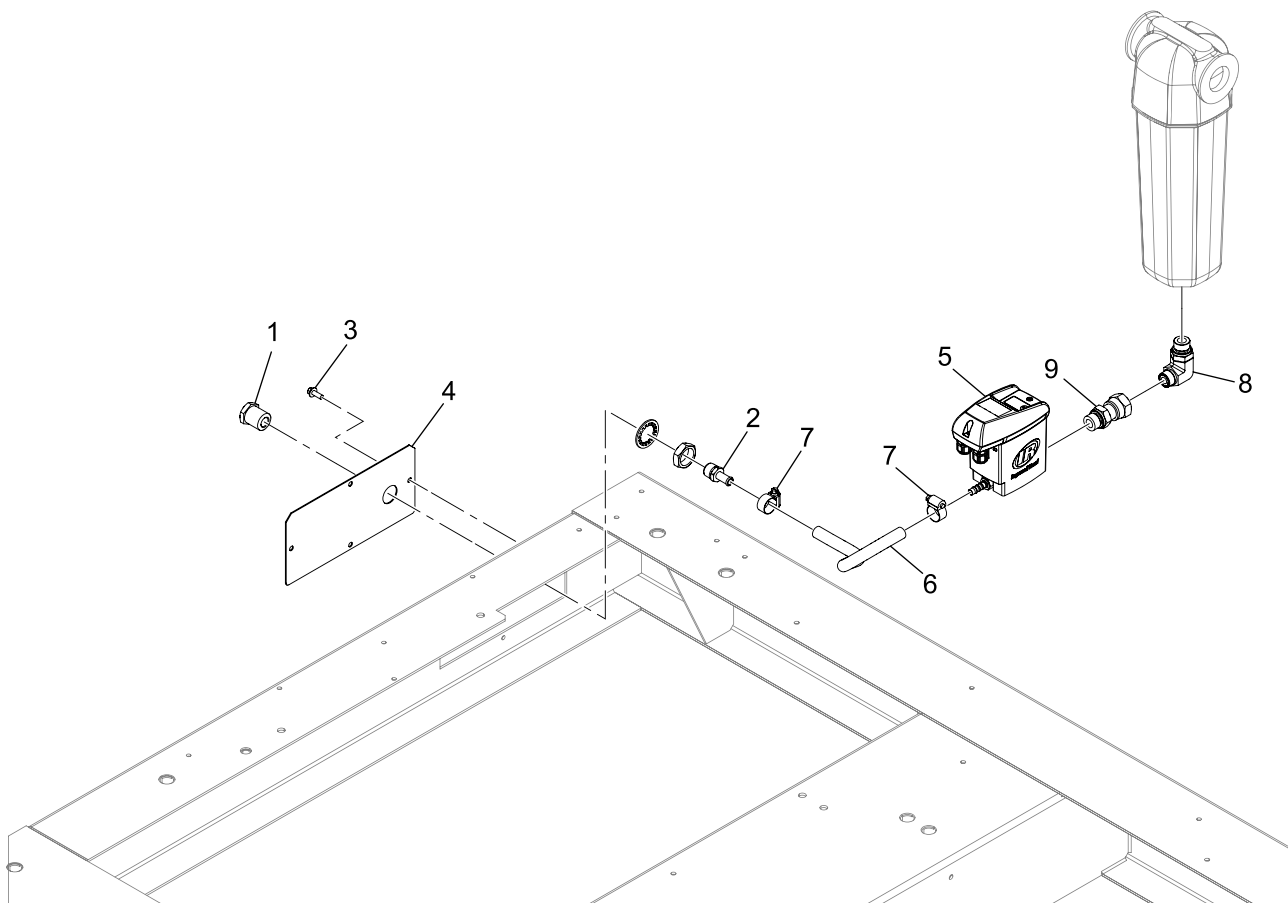


CONDENSATE STANDARD - W/ DRYER PART LIST

Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
1	22219026	3	CONNECTOR, BULKHEAD 3/8" NPT	6	96770359	2	CONNECTOR, PUSH-IN 3/8" NPT x 10 mm
	47536456001	3	CONNECTOR, BULKHEAD 3/8" BSPT		96762125	2	CONNECTOR, PUSH-IN 3/8" BSPT x 10 mm
2	23434830	1	VALVE, SOLENOID DRAIN	7	47528078001	1	PLATE, CONDENSATE
3	39917489	4	SCREW	8	23452311	A/R	TUBE
4	49140668	1	CONNECTOR	9	96766001	1	CONNECTOR
5	95916011	1	NIPPLE, 3/8" NPT x 1/4" NPT	10	47539256001	3	ASSEMBLY, CABLE
	47536455001	1	NIPPLE, 3/8" BSPT x 1/4" NPT	11	23588940	2	VALVE, SOLENOID
				12	96761952	2	ELBOW

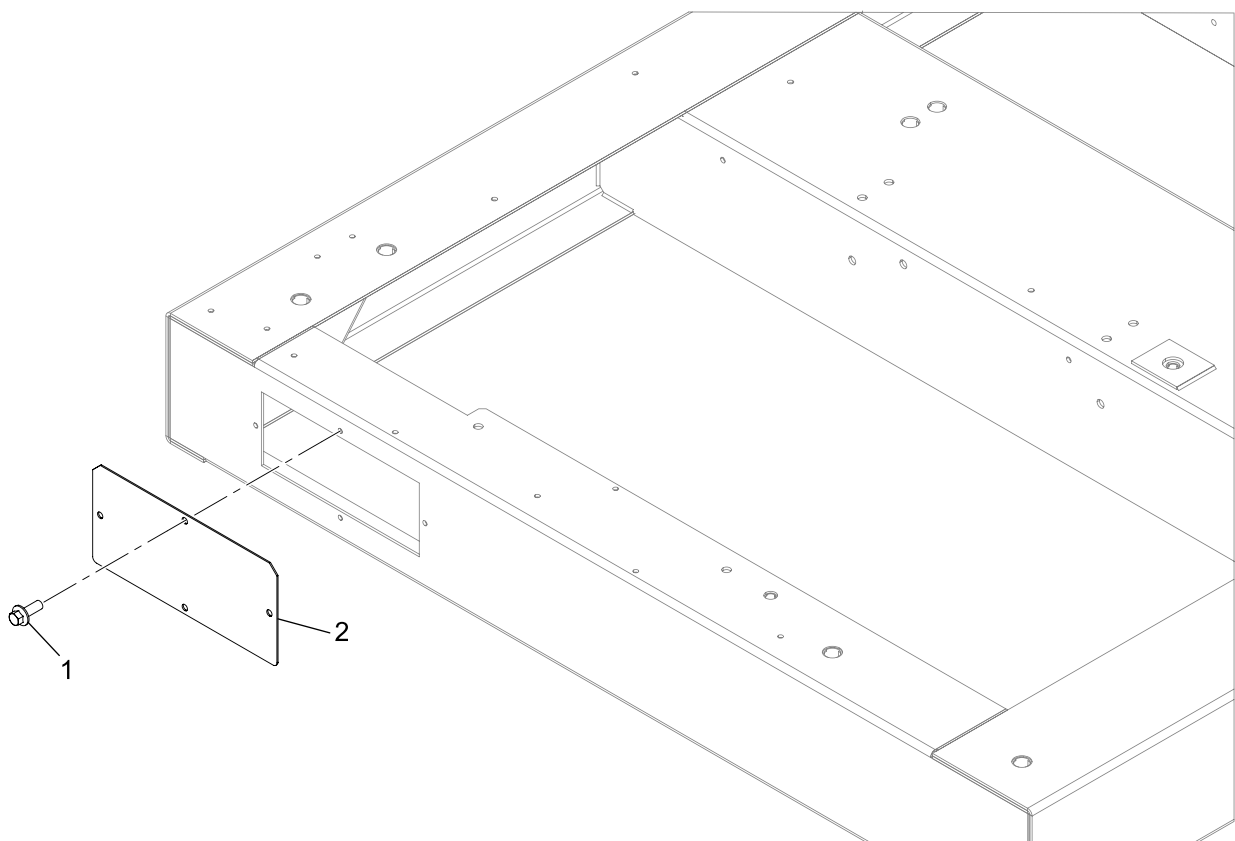
A/R	AS REQUIRED
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CONDENSATE NO LOSS - W/O DRYER ASSEMBLY DRAWING AND PARTS LIST



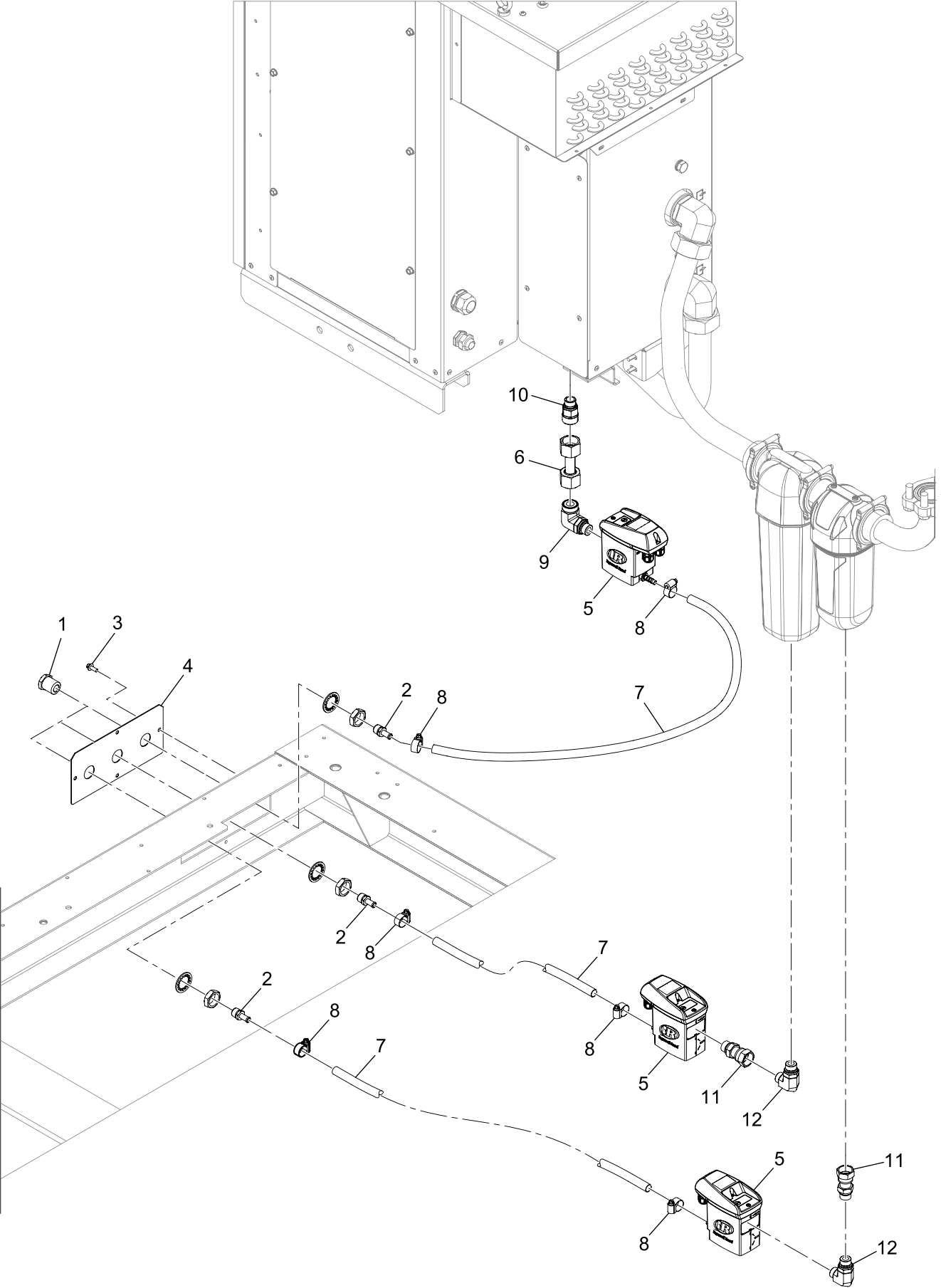
Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
1	22219026	4	CONNECTOR, BULKHEAD 3/8" NPT	4	47528077001	1	PLATE, CONDENSATE
	47536456001	4	CONNECTOR, BULKHEAD 3/8" BSPT	5	23434848	1	VALVE, NO-LOSS DRAIN
2	24743767	1	FITTING, BARBED 3/8" HOSE x 3/8" NPT	6	38032249	A/R	HOSE
	96770417	1	FITTING, BARBED 3/8" HOSE x 3/8" BSPT	7	95264776	2	CLAMP
3	39917489	4	SCREW	8	96760939	1	ELBOW, 90
				9	96766654	1	CONNECTOR
				A/R	AS REQUIRED		

CONDENSATE (NO M/S) ASSEMBLY DRAWING AND PARTS LIST



Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
1	39917489	4	SCREW				
2	47528079001	1	PLATE, CONDENSATE				

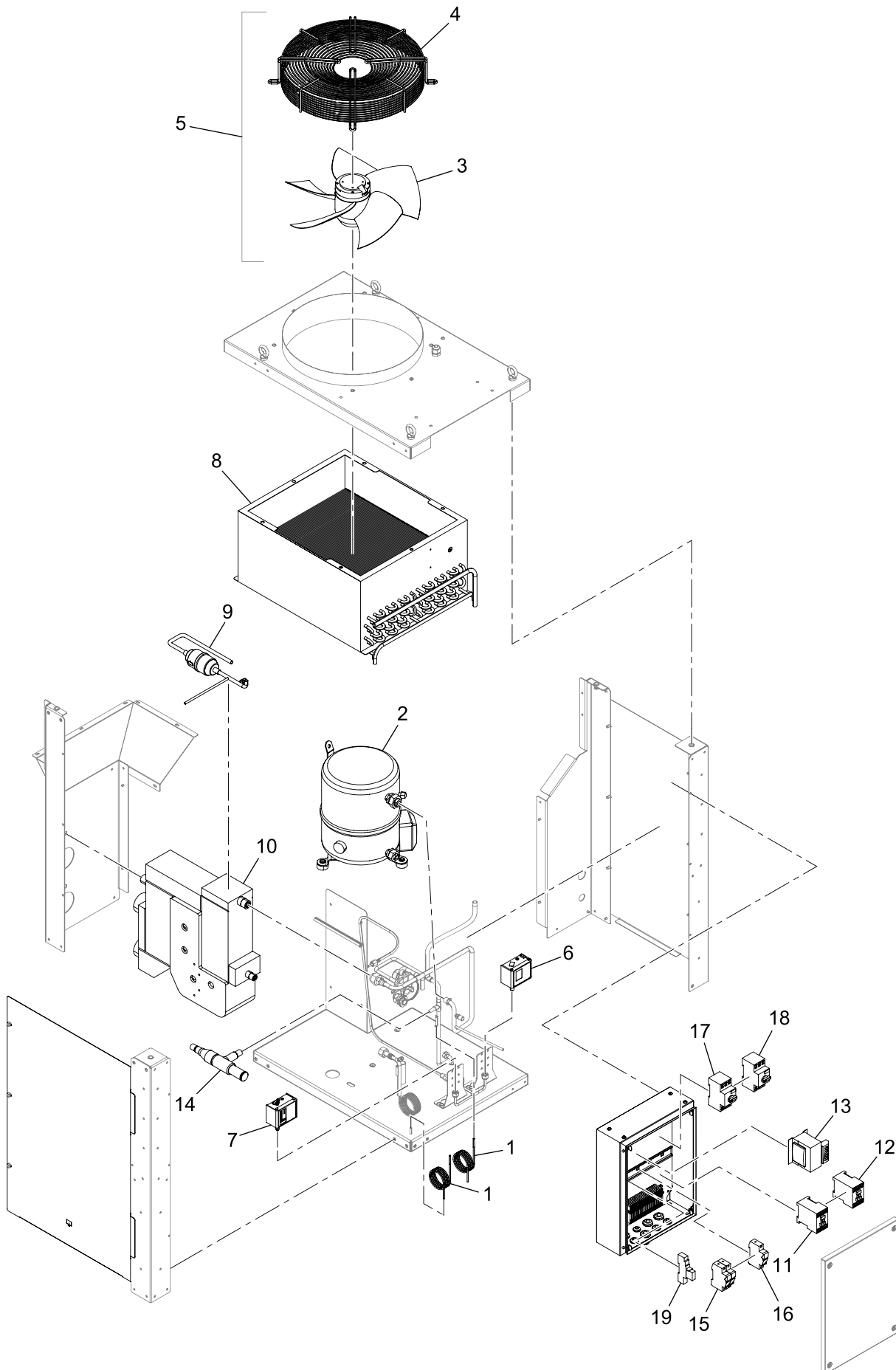
CONDENSATE NO LOSS - W/ DRYER ASSEMBLY DRAWING



CONDENSATE NO LOSS - W/ DRYER PART LIST

Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
1	22219026	3	CONNECTOR, BULKHEAD 3/8" NPT	6	23696537	1	TUBE
	47536456001	3	CONNECTOR, BULKHEAD 3/8" BSPT	7	38032249	A/R	HOSE
2	24743767	3	FITTING, BARBED 3/8" HOSE X 3/8" NPT	8	95264776	6	CLAMP
	96770417	3	FITTING, BARBED 3/8" HOSE X 3/8" BSPT	9	96760962	1	ELBOW, 90
3	39917489	4	SCREW	10	96761697	1	CONNECTOR
4	47528078001	1	PLATE, CONDENSATE	11	96766654	2	CONNECTOR
5	23434848	1	VALVE, NO-LOSS DRAIN	12	96760939	2	ELBOW
				A/R	AS REQUIRED		

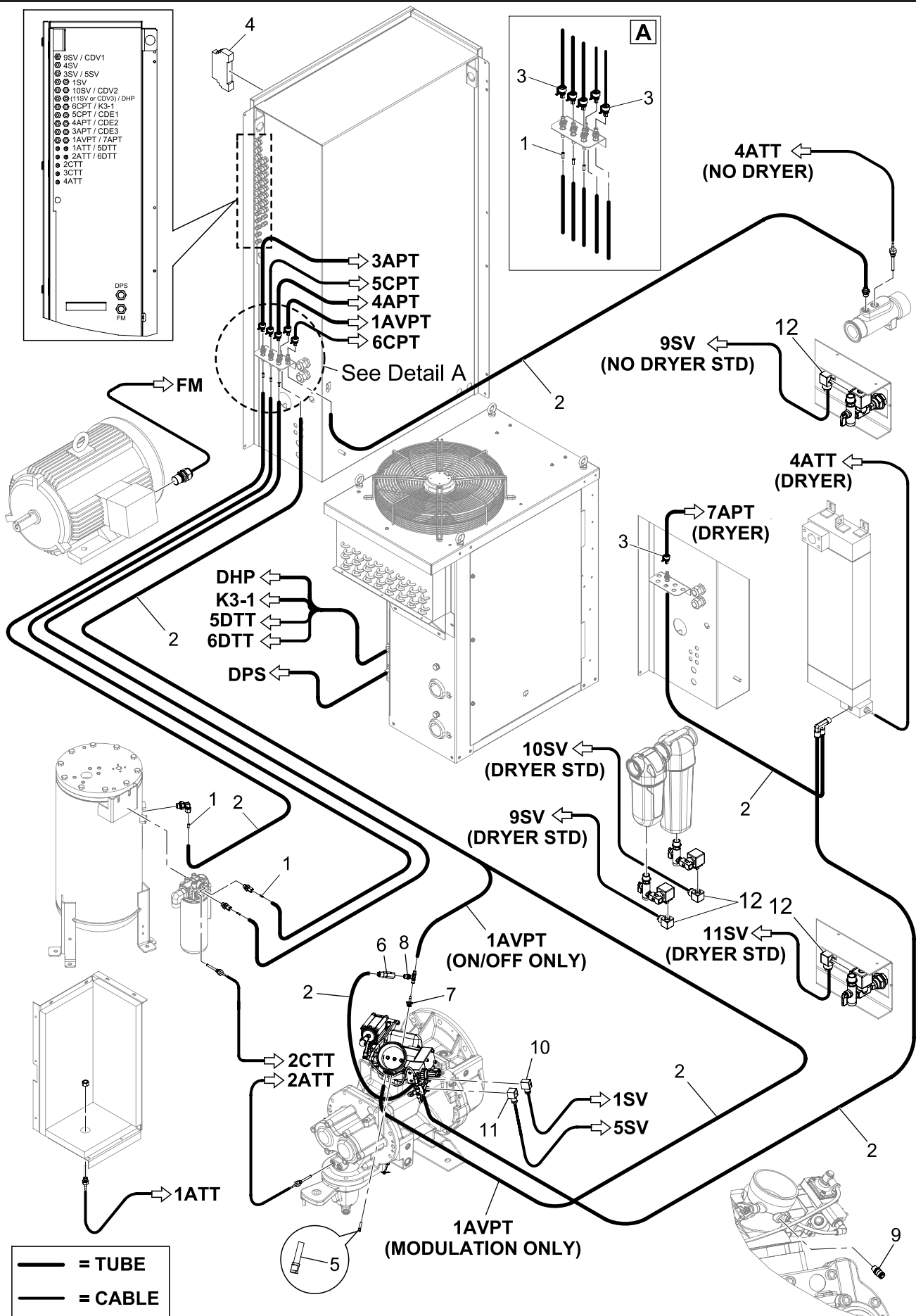
DRYER ASSEMBLY DRAWING



DRYER PARTS LIST

Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
1	23807951	2	TEMPERATURE PROBE	13	18302059	1	TRANSFORMER, 400 V - 50 Hz
2	23895857	1	REFRIGERANT COMPRESSOR, 400 V - 50 Hz , 460 V - 60 Hz		24103970	1	TRANSFORMER, 460 V - 60 Hz
	23530116	1	REFRIGERANT COMPRESSOR, 380 V - 60 Hz		23808488	1	TRANSFORMER, 380 V - 60 Hz
	23895865	1	REFRIGERANT COMPRESSOR, 230 V - 60 Hz		24127359	1	TRANSFORMER, 230 V - 60 Hz
3	49093933	1	FAN MOTOR AND FAN BLADE, 400 V - 50 Hz	14	18301358	1	BY-PASS HOT GAS VALVE MODULE
4	18301531	1	GRID, 400 V - 50 Hz	15	18301762	2	PRIMARY FUSE, 380 V - 60 Hz, 400 V - 50 Hz
5	24024846	1	FAN MOTOR, FAN BLADE AND GRID, 230 V - 60 Hz, 380 V - 60 Hz, 460 V - 60 Hz		23913965	2	PRIMARY FUSE, 230 V - 60 Hz, 460 V - 60 Hz
6	18301630	1	HIGH PRESSURE SWITCH	16	18301788	1	24 V SECONDARY CIRCUIT FUSE, 380 V - 60 Hz, 400 V - 50 Hz
7	18301622	1	FAN PRESSURE SWITCH		23913973	1	24V SECONDARY CIRCUIT FUSE, 230 V - 60 Hz, 460 V - 60 Hz
8	23888324	1	CONDENSER	17	24103343	1	COMPRESSOR CIRCUIT BREAKER, 380 V - 60 Hz, 400 V - 50 Hz, 460 V - 60 Hz
9	38459707	1	FILTER DRYER		24060436	1	COMPRESSOR CIRCUIT BREAKER, 230 V - 60 Hz
10	23516388	1	HEAT EXCHANGER BASE	18	23859291	1	FAN CIRCUIT BREAKER, 380 V - 60 Hz, 400 V - 50 Hz, 460 V - 60 Hz
11	23808397	1	COMPRESSOR CONTACTOR SWITCH, 380 V - 60 Hz, 400 V - 50 Hz, 460 V - 60 Hz		23913957	1	FAN CIRCUIT BREAKER, 230 V - 60 Hz
	23545312	1	COMPRESSOR CONTACTOR SWITCH, 230 V - 60 Hz				
12	23808397	1	FAN CONTACTOR SWITCH	19	23777477	1	RELAY

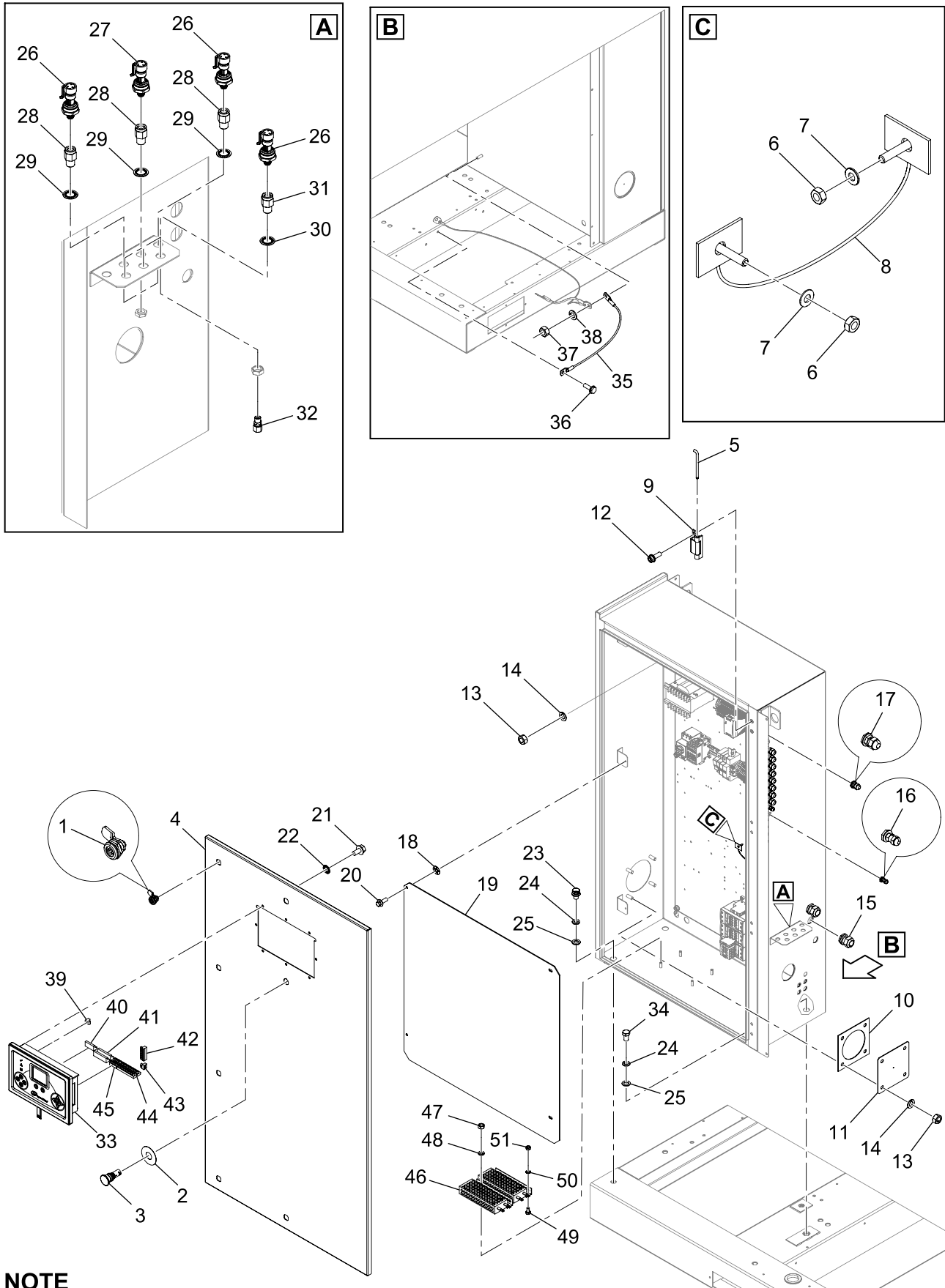
CONTROLS MODULATION & ON/OFF ASSEMBLY DRAWING



CONTROLS MODULATION & ON/OFF PARTS LIST

Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
1	22770069	6	INSERT, 6 mm PLASTIC TUBE	9	47531467001	1	ADAPTOR
2	23452303	A/R	TUBE, NYLON 6 mm OD BLUE	10	49164551	1	ASSEMBLY, CABLE, 1SV - RS30-37IE
3	39875570	6	CABLE, TRANSDUCER INTELLISYS SG	11	47539265001	1	ASSEMBLY, CABLE, 5SV - RS30-37IE
4	22837058	1	RELAY, TIME DELAY	12	47539256001	1	ASSEMBLY, CABLE, 9SV, 10SV, 11SV - RS30-37IE
5	23702954	1	PLUG, 6 mm DIA. (PUSH TO CONNECT)		23529753		CABLE 20-3 CONDUCTOR 600 VOLT
6	23828882	1	VALVE, CHECK				
7	23868276	1	FITTING, ORIFICE	A/R	AS REQUIRED		
8	96759766	1	TEE, TUBE FITTING				

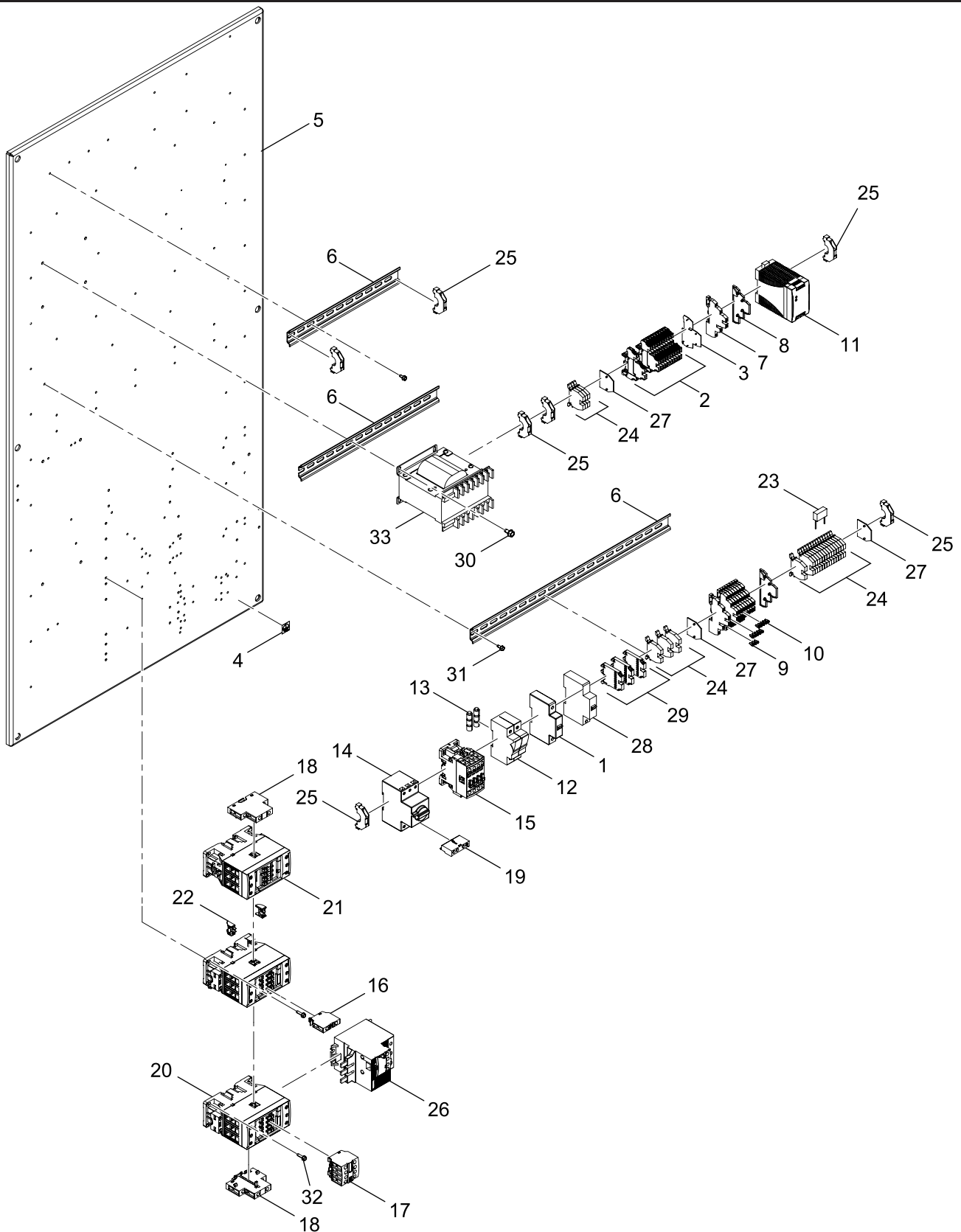
STARTER BOX (FIXED SPEED) ASSEMBLY DRAWING



STARTER BOX (FIXED SPEED) PARTS LIST

Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
1	23180565	6	LATCH, DOOR (NEMA 4) 28 mm HEAD / 24 mm OFFSET	27	49147135	1	TRANSDUCER, VACUUM 0 - 15 PSIG
2	23262405	1	PLATE, EMERGENCY STOP SWITCH	28	23700396	3	BULKHEAD, FEMALE UNION
3	23990716	1	SWITCH, EMERGENCY STOP	29	95922761	3	WASHER, LOCK INTERNAL TOOTH FLAT TYPE A, .50
4	24822223	1	DOOR, STARTERBOX (FS)	30	95922779	3	WASHER, LOCK INTERNAL TOOTH FLAT TYPE A, .562
5	93580140	4	HINGE, PIN	31	47538426001	3	ADAPTOR, M12 6149 x 1/8 NPT BULKHEAD
6	96703756	2	NUT, HEX STYLE 1 COARSE THD M4-.7	32	47538427001	3	CONNECTOR, COMPRESSION P-IN1/8NPT - 6 mm TUBE
7	96705165	2	WASHER, PRODUCT GRADE A M4	33	23629512	1	CONTROLLER STANDARD (Xe-90M)
8	22265813	6	WIRE, GROUND 355mm		23711288		CONTROLLER ENHANCED (Xe-145M)
9	22159842	4	HINGE, DOOR PIN BOLT ON	34	96738380	1	SCREW, HEX HEAD M16- 2 x 30
10	23409154	1	GASKET, POWER-IN PLATE STARTER BOX	35	23877145	1	CABLE, EARTH GROUND 15" LG (4AWG)
11	23409162	1	PLATE, STARTER BOX POWER	36	54656905	1	TAPTITE SCREW M10 x 1,5 x 30
12	24718223	8	SCREW, SOCKET FLANGE HEAD M6 x 16.0 LONG	37	96704812	1	NUT, HEX STYLE 1 COURSE THD M10-1.50
13	96704812	10	NUT, HEX STYLE 1 COURSE THD M10-1.50	38	96712096	1	WASHER, SPRING LOCK, CURVED TYPE A, M10
14	96718655	4	WASHER, SPRING LOCK, CURVED TYPE A, M10	39	54719182	1	CONNECTOR, 2 WAY
15	22501720	2	GLAND, CABLE M25 x 1.5	40	54729496	1	CONNECTOR, 8 WAY
16	23547763	7	GLAND, WIRE WITH LOCKING NUT	41	54729520	2	CONNECTOR, 12 WAY
17	23549603	19	GLAND, WIRE WITH LOCKING NUT	42	39242375	1	PLUG, 10 POSITION
18	23523491	4	RETAINER, 6 mm SCREW	43	39204441	1	PLUG, 3 POSITION
19	24741969	1	PANEL, CLEAR STARTER BOX	44	39191655	2	PLUG, 16 POSITION
20	39917489	4	SCREW, HEX HEAD FLANGE M6 x 16.0 LONG	45	39186093	2	PLUG, 6 POSITION
21	23829344	8	SCREW, SELF THREADING M6 x 12 mm LONG	46	22245450	2	HEATER, 62.5 WATTS
22	95929055	8	WASHER, LOCK EXTERNAL TOOTH FLAT TYPE A, .25	47	96701370	4	NUT, HEX STYLE 1 COURSE THD M8-1.25
23	96738372	3	SCREW, HEX HEAD M16- 2.00 x 25.0 LONG	48	96741467	4	WASHER, SPRING LOCK, CURVED TYPE A, M8
24	96765169	4	WASHER, LOCK HELICAL SPRING M16	49	96742358	4	HHCS, M4-0.7 x 8
25	96701438	4	WASHER, PLAIN GRADE C, 16	50	96745237	4	WASHER, LOCK EXTERNAL TOOTH M4
26	49147127	5	TRANSDUCER, PRESSURE 225 PSI, 5 VDC	51	96703756	4	NUT, HEX, M4

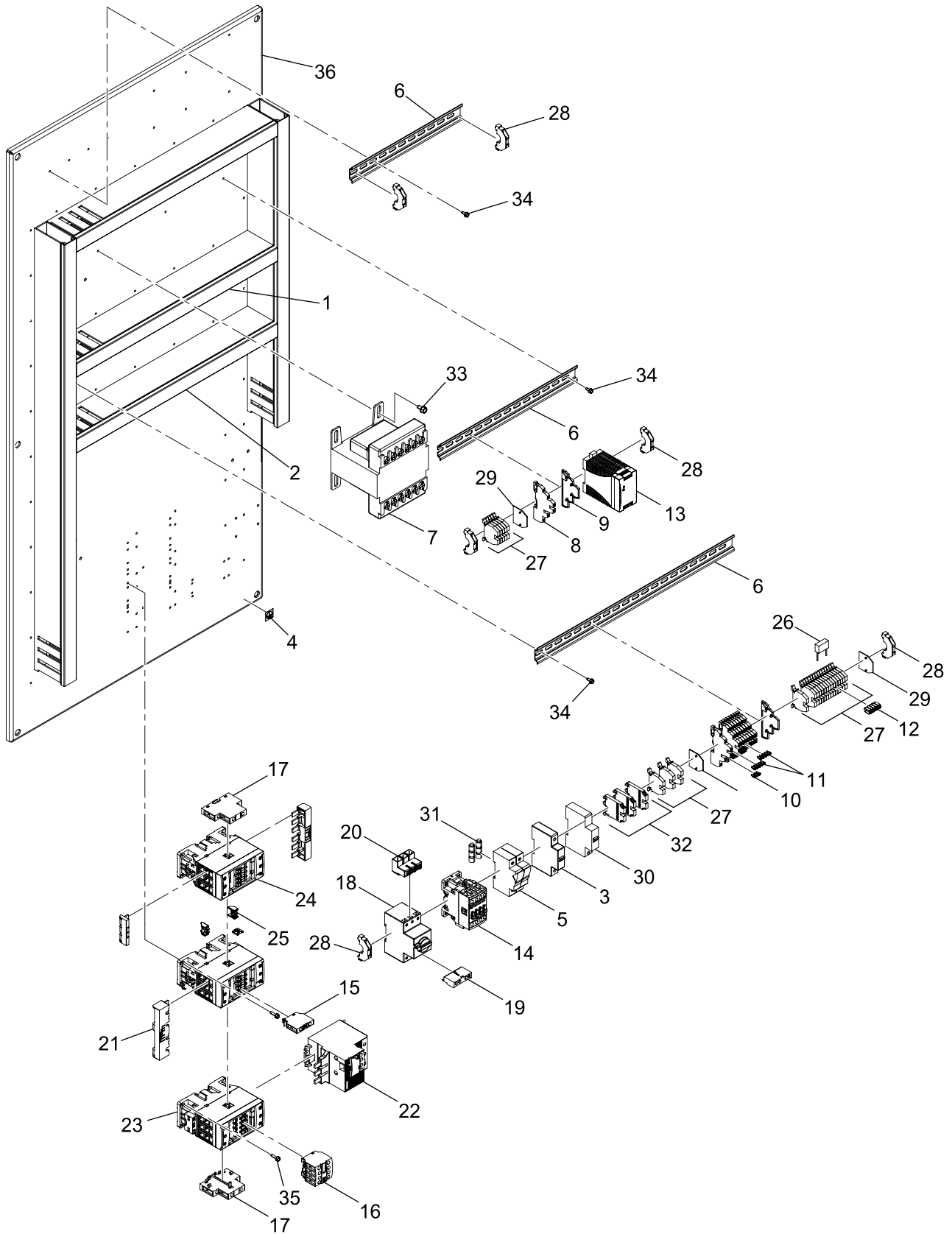
48957575 BACKPANEL S/D (AF52/52/40) - EMEA ASSEMBLY DRAWING



48957575 BACKPANEL S/D (AF52/52/40) - EMEA PARTS LIST

Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
1	22135818	1	BREAKER, CIRCUIT 6A - 1P	19	24482895	1	CONTACT, AUX 1N/O, 1N/C FRONT MOUNT (ABB P/N HFK1-11)
2	22274831	11	BLOCK, TERMINAL, 2-LEVEL	20	24738924	2	CONTACTOR, 52A, 0 AUX CONT, (ABB AF52-30-00-13)
3	22274864	1	END SECTION, TERMINAL BLOCK 2-LEVEL	21	24738940	1	CONTACTOR, 40A, 0 AUX CONT, (ABB AF40-30-00-13)
4	22477244	1	DECAL, GROUND SYMBOL	22	24738957	1	INTERLOCK, MECHANICAL (ABB VM96-4)
5	23435019	1	PANEL, BACK (FIXED SPEED STAR DELTA)	23	39203443	1	SUPPRESSOR, ARC
6	23464530	A/R	RAIL, 35 mm DIN	24	39252903	21	BLOCK, TERMINAL
7	23769409	10	BLOCK, TERMINAL 3-LEVEL W/ GROUND	25	39252937	7	STOP, DIN RAIL N37-75
8	23769425	2	BLOCK, TERMINAL END SECTION, 3-LEVEL	26	47531648	1	RELAY, THERMAL OVERLOAD 36-47A (ABB TF65-47)
9	23769441	2	BLOCK, TERMINAL JUMPER, 3-POLE	27	54612940	3	TERMINAL, END PLATE - ENTRELEC 118 368.16
10	23769458	2	BLOCK, TERMINAL JUMPER, 5-POLE	28	54689849	1	BREAKER, CIRCUIT -
11	23908130	1	POWER SUPPLY, 24VDC 50W	29	93469633	3	TERMINAL, EARTH M4/6.P
12	24141962	1	HOLDER, FUSE 2-POLE 10 x 38 MM	30	96747209	4	SCREW, TAPPING HEX WASHER HEAD M6 x 12.00 LONG
13	24142036	2	FUSE, 2A AM, 500V, 10X38MM, OEZ	31	96751722	13	SCREW, TAPPING HEX WASHER HEAD M4 x 10.00 LONG
14	24189599	1	MMS, MS116-4 (2.5-4.0A) ABB	32	96767017	7	SCREW, TAPPING HEX WASHER HEAD M4 x 16.00 LONG
15	24469686	1	CONTACTOR, AF09, 1N/O AUX, ABB AF09-30-10-13	33	47513031001	1	TRANSFORMER, CONTROL 250VA 380-415V/115V, 24V 50/60 Hz
16	24474124	1	CONTACT, AUX 1N/C FRONT MOUNT (ABB P/N CA4-01)	A/R			AS REQUIRED
17	24474165	1	CONTACT, AUX 2N/O, 2N/C FRONT MOUNT (ABB P/N CA4-22E)				
18	24474173	2	CONTACT, AUX 1N/O, 1N/C SIDE MOUNT (ABB P/N CAL4-11)				

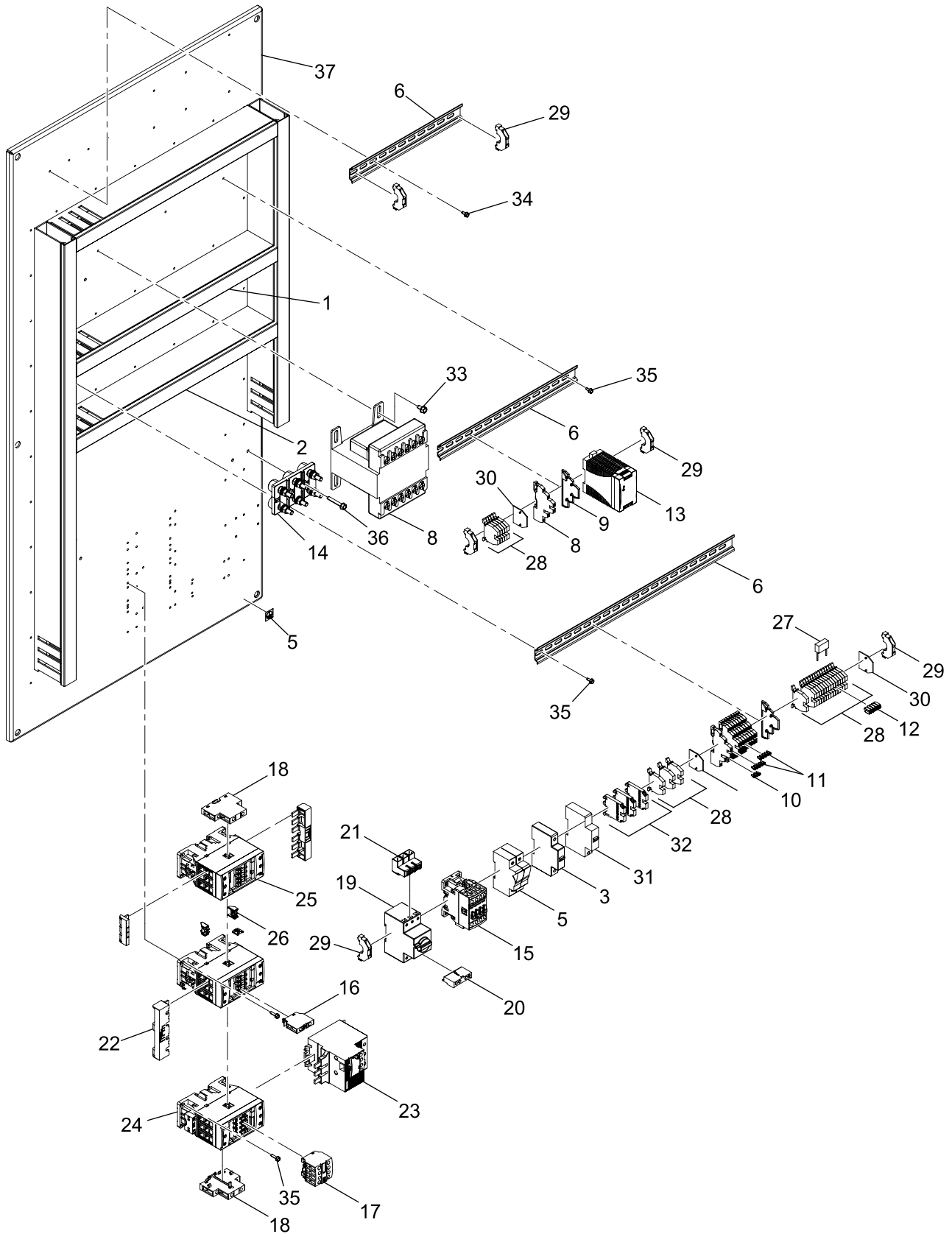
48958409 BACKPANEL S/D (AF65/65/40) ASSEMBLY DRAWING



48958409 BACKPANEL S/D (AF65/65/40) PARTS LIST

Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
1	22101208	A/R	DUCT, WIRING, 1 IN. x 3 IN.	20	24482903	1	TERMINAL, 3 PHASE FEEDER (ABB P/N S1-M3-25)
2	22101224	A/R	COVER, WIRING DUCT, 1 IN.	21	24738908	1	KIT, CONNECTION, YD STARTERS (ABB BEY65-4)
3	22135818	1	BREAKER, CIRCUIT 6A - 1P	22	24738916	1	RELAY, OVERLOAD (ABB EF65-70)
4	22477244	1	DECAL, GROUND SYMBOL	23	24738932	2	CONTACTOR, 65A, 0 AUX CONT, (ABB AF65-30-00-13)
5	22859425	1	BLOCK, FUSE, 2-POLE, 600V, 30A	24	24738940	1	CONTACTOR, 40A, 0 AUX CONT, (ABB AF40-30-00-13)
6	23464530	A/R	RAIL, 35 mm DIN	25	24738957	1	INTERLOCK, MECHANICAL (ABB VM96-4)
7	23618572	1	TRANSFORMER, CONTROL 350VA	26	39203443	1	SUPPRESSOR, ARC
8	23769409	8	BLOCK, TERMINAL 3-LEVEL W/ GROUND	27	39252903	17	BLOCK, TERMINAL
9	23769425	2	BLOCK, TERMINAL END SECTION, 3-LEVEL	28	39252937	6	STOP, DIN RAIL N37-75
10	23769441	2	BLOCK, TERMINAL JUMPER, 3-POLE	29	54612940	3	TERMINAL, END PLATE - ENTRELEC 118 368.16
11	23769458	2	BLOCK, TERMINAL JUMPER, 5-POLE	30	54689849	1	BREAKER, CIRCUIT -
12	23896434	1	JUMPER, 5 POLE	31	85036812	2	FUSE, TIME DELAY, CLASS CC, 2A, 600V, 200KAIC
13	23908130	1	POWER SUPPLY, 24VDC 50W	32	93469633	3	TERMINAL, EARTH M4/6.P
14	24469710	1	CONTACTOR, AF26, 0 AUX CONT, ABB AF26-30-00-12	33	96747209	4	SCREW, TAPPING HEX WASHER HEAD M6 x 12.00 LONG
15	24474124	1	CONTACT, AUX 1N/C FRONT MOUNT (ABB P/N CA4-01)	34	96751722	43	SCREW, TAPPING HEX WASHER HEAD M4 x 10.00 LONG
16	24474165	1	CONTACT, AUX 2N/O, 2N/C FRONT MOUNT (ABB P/N CA4-22E)	35	96767017	8	SCREW, TAPPING HEX WASHER HEAD M4 x 16.00 LONG
17	24474173	2	CONTACT, AUX 1N/O, 1N/C SIDE MOUNT (ABB P/N CAL4-11)	36	47549030001	1	PANEL, BACK (FIXED SPEED STAR DELTA)
18	24482796	1	STARTER, MANUAL MTR (ABB P/N MS132-2.5)				
19	24482895	1	CONTACT, AUX 1N/O, 1N/C FRONT MOUNT (ABB P/N HFK1-11)	A/R	AS REQUIRED		

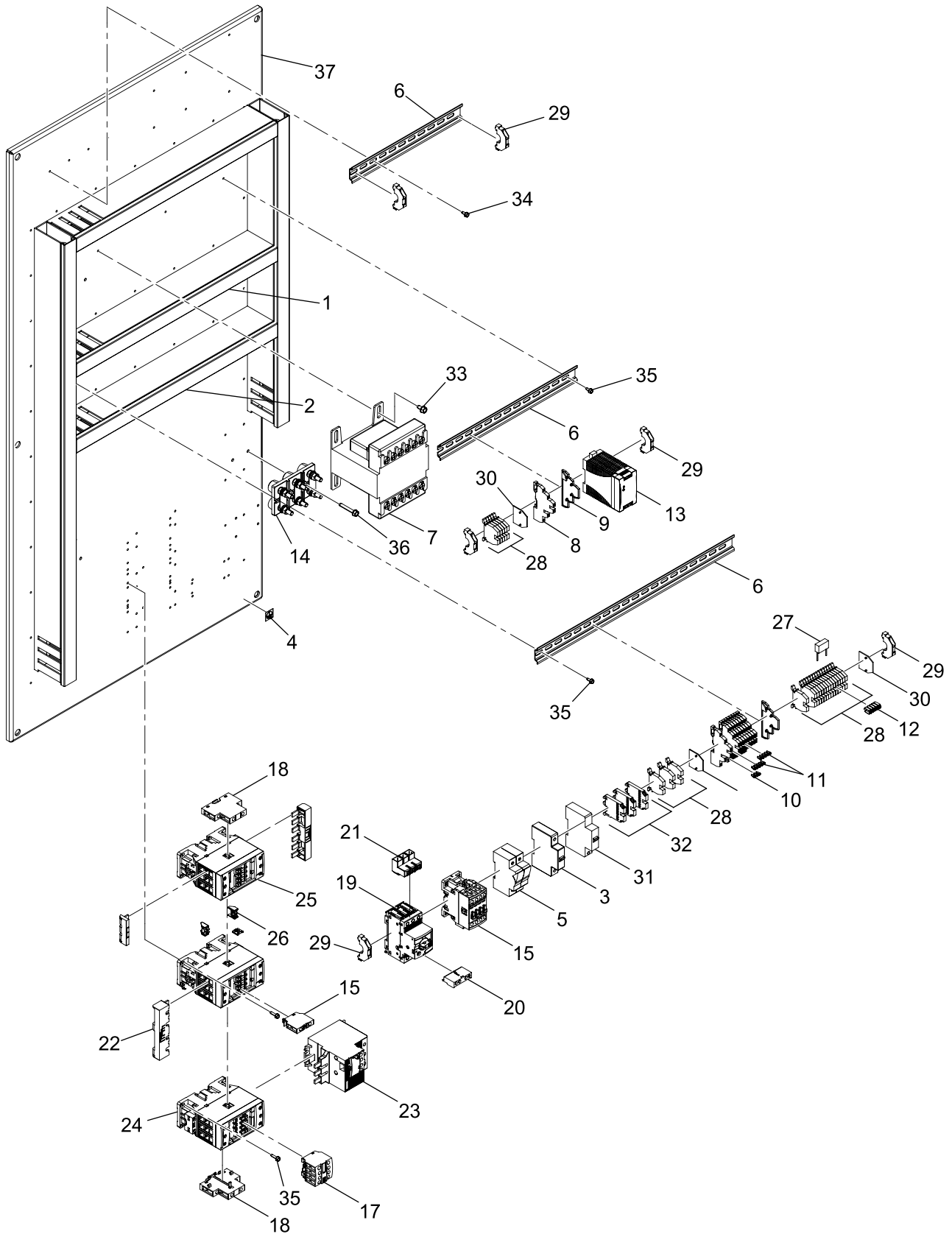
48963995 BACKPANEL S/D (AF52/52/40) ASSEMBLY DRAWING



48963995 BACKPANEL S/D (AF52/52/40) PARTS LIST

Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
1	22101208	A/R	DUCT, WIRING, 1 IN. X 3 IN.	21	24482903	1	TERMINAL, 3 PHASE FEEDER (ABB P/N S1-M3-25)
2	22101224	A/R	COVER, WIRING DUCT, 1 IN.	22	24738908	1	KIT, CONNECTION, YD STARTERS (ABB BEY65-4)
3	22135818	1	BREAKER, CIRCUIT 6A - 1P	23	24738916	1	RELAY, OVERLOAD (ABB EF65-70)
4	22477244	1	DECAL, GROUND SYMBOL	24	24738924	2	CONTACTOR, 52A, 0 AUX CONT, (ABB AF52-30-00-13)
5	23199557	1	BREAKER, MINI-CIR 3A 2P S202-D3	25	24738940	1	CONTACTOR, 40A, 0 AUX CONT, (ABB AF40-30-00-13)
6	23464530	A/R	RAIL, 35 mm DIN	26	24738957	1	INTERLOCK, MECHANICAL (ABB VM96-4)
7	23618572	1	TRANSFORMER, CONTROL 350VA	27	39203443	1	SUPPRESSOR, ARC
8	23769409	8	BLOCK, TERMINAL 3-LEVEL W/ GROUND	28	39252903	17	BLOCK, TERMINAL
9	23769425	2	BLOCK, TERMINAL END SECTION, 3-LEVEL	29	39252937	6	STOP, DIN RAIL N37-75
10	23769441	2	BLOCK, TERMINAL JUMPER, 3-POLE	30	54612940	3	TERMINAL, END PLATE - ENTRELEC 118 368.16
11	23769458	2	BLOCK, TERMINAL JUMPER, 5-POLE	31	54689849	1	BREAKER, CIRCUIT -
12	23896434	1	JUMPER, 5 POLE	32	93469633	3	TERMINAL, EARTH M4/6.P
13	23908130	1	POWER SUPPLY, 24VDC 50W	33	96747209	4	SCREW, TAPPING HEX WASHER HEAD M6 x 12.00 LONG
14	24099079	1	BLOCK, TERMINAL M8-6 POLE	34	96751722	43	SCREW, TAPPING HEX WASHER HEAD M4 x 10.00 LONG
15	24469710	1	CONTACTOR, AF26, 0 AUX CONT, ABB AF26-30-00-12	35	96767017	6	SCREW, TAPPING HEX WASHER HEAD M4 x 16.00 LONG
16	24474124	1	CONTACT, AUX 1N/C FRONT MOUNT (ABB P/N CA4-01)	36	96767322	2	SCREW, TAPPING HEX WASHER HEAD M6 x 40.00 LONG
17	24474165	1	CONTACT, AUX 2N/O, 2N/C FRONT MOUNT (ABB P/N CA4-22E)	37	47549030001	1	PANEL, BACK (FIXED SPEED STAR DELTA)
18	24474173	2	CONTACT, AUX 1N/O, 1N/C SIDE MOUNT (ABB P/N CAL4-11)				
19	24482804	1	STARTER, MANUAL MTR (ABB P/N MS132-4.0)				
20	24482895	1	CONTACT, AUX 1N/O, 1N/C FRONT MOUNT (ABB P/N HFK1-11)				
				A/R	AS REQUIRED		

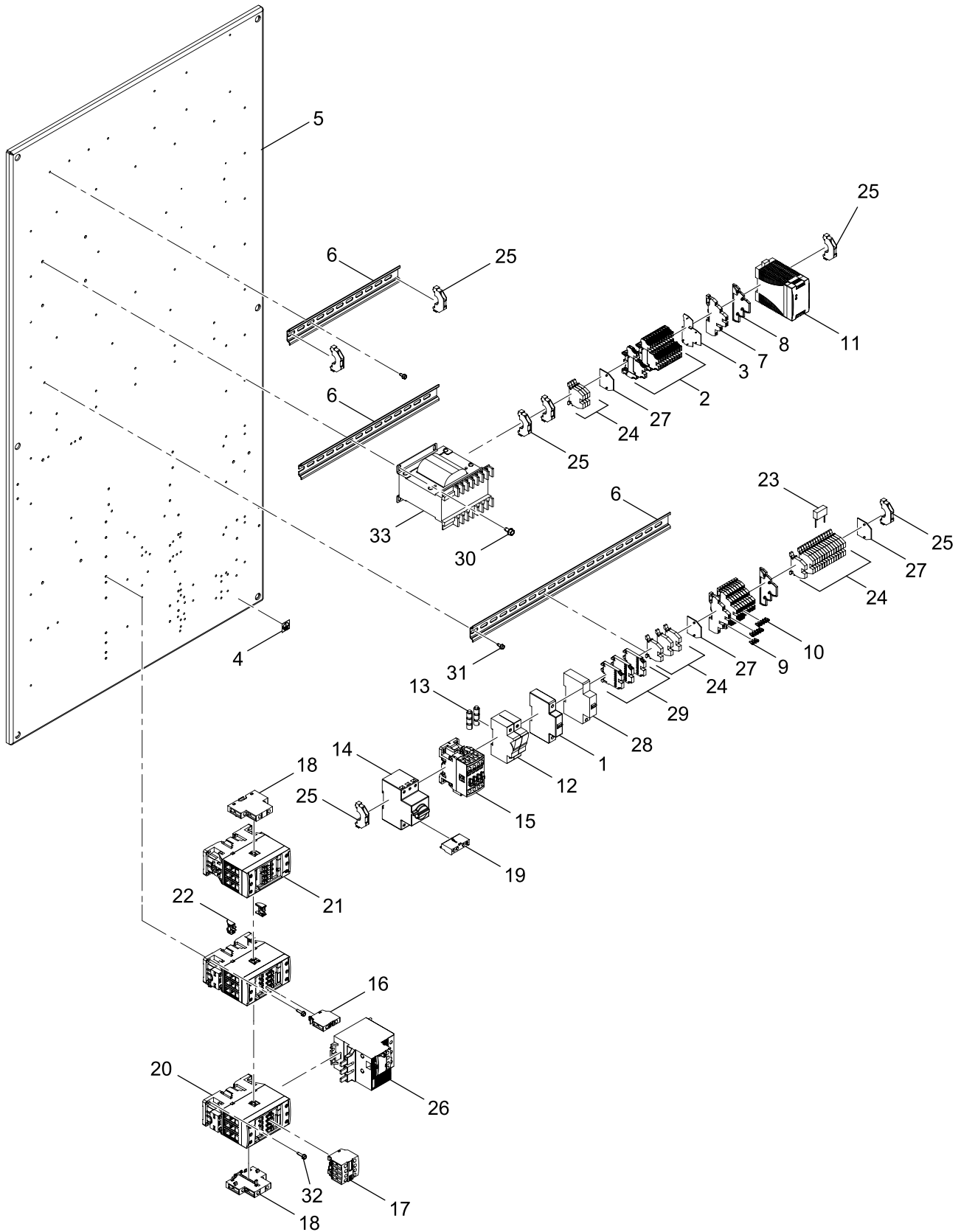
48964001 BACKPANEL S/D (AF65/65/40) ASSEMBLY DRAWING



48964001 BACKPANEL S/D (AF65/65/40) PARTS LIST

Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
1	22101208	A/R	DUCT, WIRING, 1 IN. x 3 IN.	21	24482903	1	TERMINAL, 3 PHASE FEEDER (ABB P/N S1-M3-25)
2	22101224	A/R	COVER, WIRING DUCT, 1 IN.	22	24738908	1	KIT, CONNECTION, YD STARTERS (ABB BEY65-4)
3	22135818	1	BREAKER, CIRCUIT 6A - 1P	23	24738916	1	RELAY, OVERLOAD (ABB EF65-70)
4	22477244	1	DECAL, GROUND SYMBOL	24	24738932	2	CONTACTOR, 65A, 0 AUX CONT, (ABB AF65-30-00-13)
5	23199557	1	BREAKER, MINI-CIR 3A 2P S202-D3	25	24738940	1	CONTACTOR, 40A, 0 AUX CONT, (ABB AF40-30-00-13)
6	23464530	A/R	RAIL, 35 mm DIN	26	24738957	1	INTERLOCK, MECHANICAL (ABB VM96-4)
7	23618572	1	TRANSFORMER, CONTROL 350VA	27	39203443	1	SUPPRESSOR, ARC
8	23769409	8	BLOCK, TERMINAL 3-LEVEL W/ GROUND	28	39252903	17	BLOCK, TERMINAL
9	23769425	2	BLOCK, TERMINAL END SECTION, 3-LEVEL	29	39252937	6	STOP, DIN RAIL N37-75
10	23769441	2	BLOCK, TERMINAL JUMPER, 3-POLE	30	54612940	3	TERMINAL, END PLATE - ENTRELEC 118 368.16
11	23769458	2	BLOCK, TERMINAL JUMPER, 5-POLE	31	54689849	1	BREAKER, CIRCUIT -
12	23896434	1	JUMPER, 5 POLE	32	93469633	3	TERMINAL, EARTH M4/6.P
13	23908130	1	POWER SUPPLY, 24VDC 50W	33	96747209	4	SCREW, TAPPING HEX WASHER HEAD M6 x 12.00 LONG
14	24099079	1	BLOCK, TERMINAL M8-6 POLE	34	96751722	47	SCREW, TAPPING HEX WASHER HEAD M4 x 10.00 LONG
15	24469710	1	CONTACTOR, AF26, 0 AUX CONT, ABB AF26-30-00-12	35	96767017	4	SCREW, TAPPING HEX WASHER HEAD M4 x 16.00 LONG
16	24474124	1	CONTACT, AUX 1N/C FRONT MOUNT (ABB P/N CA4-01)	36	96767322	2	SCREW, TAPPING HEX WASHER HEAD M6 x 40.00 LONG
17	24474165	1	CONTACT, AUX 2N/O, 2N/C FRONT MOUNT (ABB P/N CA4-22E)	37	47549030001	1	PANEL, BACK (FIXED SPEED STAR DELTA)
18	24474173	2	CONTACT, AUX 1N/O, 1N/C SIDE MOUNT (ABB P/N CAL4-11)				
19	24482804	1	STARTER, MANUAL MTR (ABB P/N MS132-4.0)				
20	24482895	1	CONTACT, AUX 1N/O, 1N/C FRONT MOUNT (ABB P/N HFK1-11)				
				A/R	AS REQUIRED		

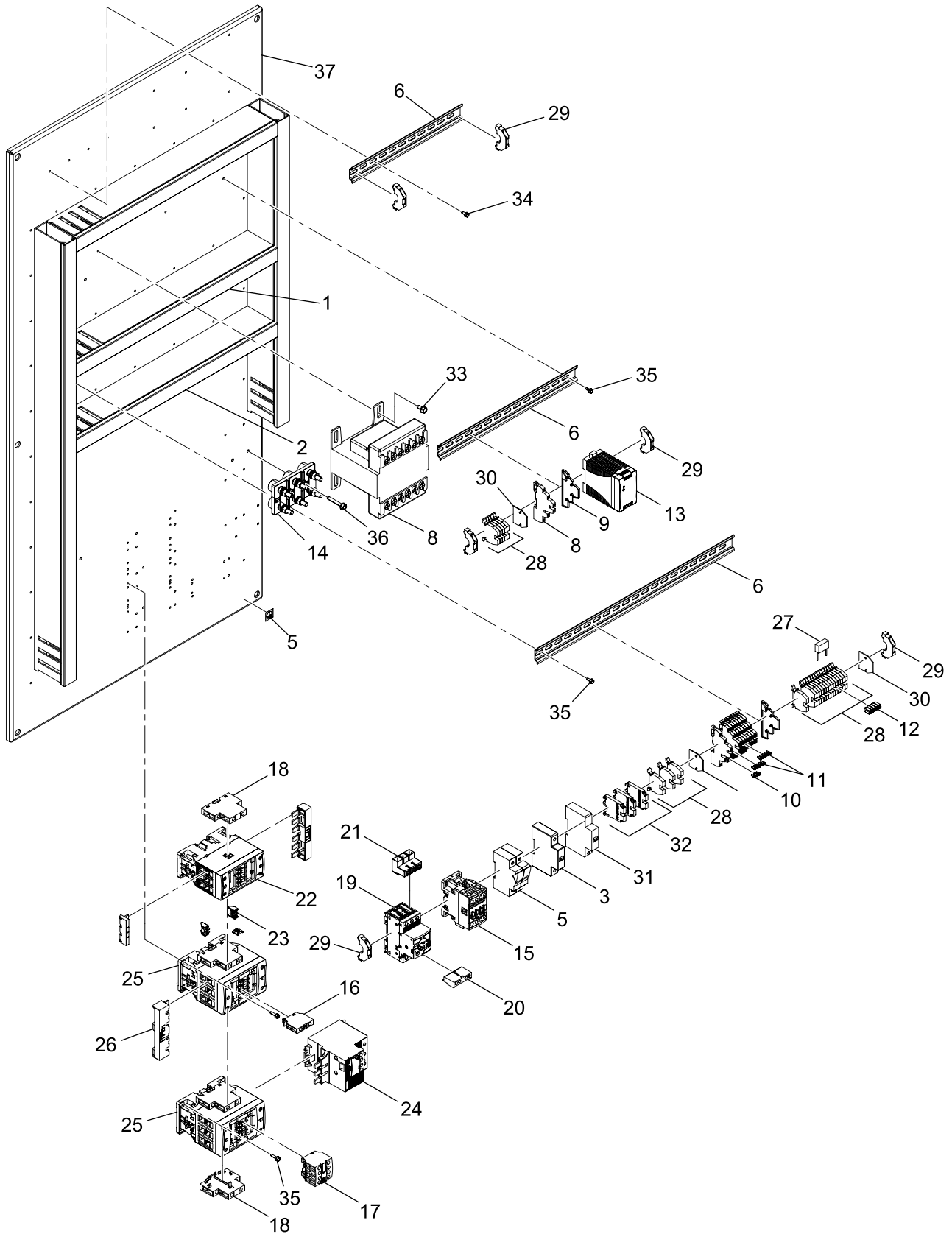
48964019 BACKPANEL S/D (AF65/65/40) - EMEA ASSEMBLY DRAWING



48964019 BACKPANEL S/D (AF65/65/40) - EMEA PARTS LIST

Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
1	22135818	1	BREAKER, CIRCUIT 6A - 1P	19	24482895	1	CONTACT, AUX 1N/O, 1N/C FRONT MOUNT (ABB P/N HFK1-11)
2	22274831	11	BLOCK, TERMINAL, 2-LEVEL	20	24738932	2	CONTACTOR, 65A, 0 AUX CONT, (ABB AF65-30-00-13)
3	22274864	1	END SECTION, TERMINAL BLOCK 2-LEVEL	21	24738940	1	CONTACTOR, 40A, 0 AUX CONT, (ABB AF40-30-00-13)
4	22477244	1	DECAL, GROUND SYMBOL	22	24738957	1	INTERLOCK, MECHANICAL (ABB VM96-4)
5	23435019	1	PANEL, BACK (FIXED SPEED STAR DELTA)	23	39203443	1	SUPPRESSOR, ARC
6	23464530	A/R	RAIL, 35 mm DIN	24	39252903	21	BLOCK, TERMINAL
7	23769409	10	BLOCK, TERMINAL 3-LEVEL W/ GROUND	25	39252937	7	STOP, DIN RAIL N37-75
8	23769425	2	BLOCK, TERMINAL END SECTION, 3-LEVEL	26	49106875	1	RELAY, THERMAL OVERLOAD 44-53A (ABB TF65-53)
9	23769441	2	BLOCK, TERMINAL JUMPER, 3-POLE	27	54612940	3	TERMINAL, END PLATE - ENTRELEC 118 368.16
10	23769458	2	BLOCK, TERMINAL JUMPER, 5-POLE	28	54689849	1	BREAKER, CIRCUIT
11	23908130	1	POWER SUPPLY, 24VDC 50W	29	93469633	3	TERMINAL, EARTH M4/6.P
12	24141962	1	HOLDER, FUSE 2-POLE 10 X 38 MM	30	96747209	4	SCREW, TAPPING HEX WASHER HEAD M6 x 12.00 LONG
13	24142036	2	FUSE, 2A AM, 500V, 10X38MM, OEZ	31	96751722	11	SCREW, TAPPING HEX WASHER HEAD M4 x 10.00 LONG
14	24189599	1	MMS, MS116-4 (2.5-4.0A) ABB	32	96767017	8	SCREW, TAPPING HEX WASHER HEAD M4 x 16.00 LONG
15	24469686	1	CONTACTOR, AF09, 1N/O AUX, ABB AF09-30-10-13	33	47513031001	1	TRANSFORMER, CONTROL 250VA 380-415V/115V, 24V 50/60 Hz
16	24474124	1	CONTACT, AUX 1N/C FRONT MOUNT (ABB P/N CA4-01)	A/R			AS REQUIRED
17	24474165	1	CONTACT, AUX 2N/O, 2N/C FRONT MOUNT (ABB P/N CA4-22E)				
18	24474173	2	CONTACT, AUX 1N/O, 1N/C SIDE MOUNT (ABB P/N CAL4-11)				

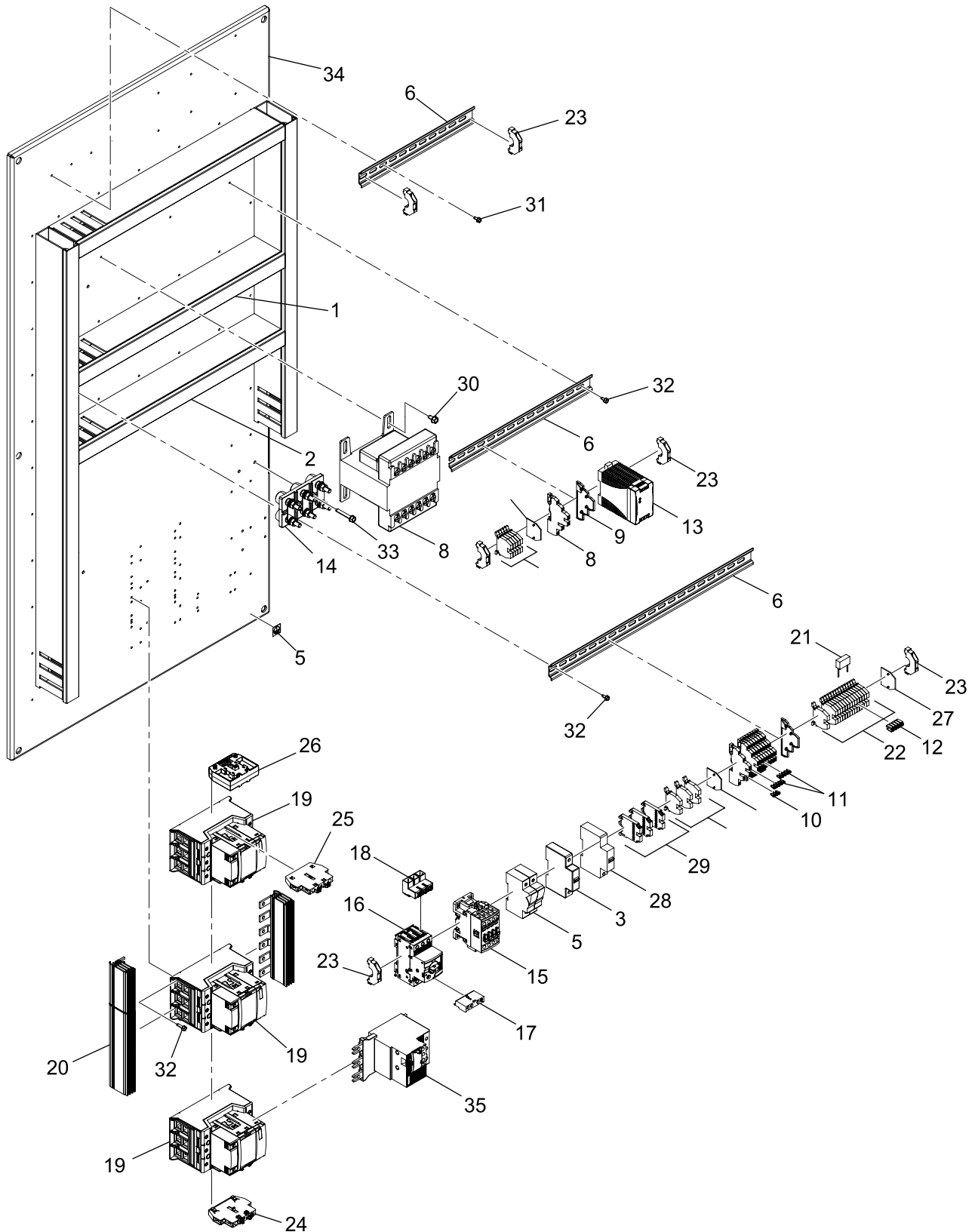
48967764 BACKPANEL S/D (AF80/80/52) ASSEMBLY DRAWING



48967764 BACKPANEL S/D (AF80/80/52) PARTS LIST

Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
1	22101208	A/R	DUCT, WIRING, 1 IN. x 3 IN.	21	24482903	1	TERMINAL, 3 PHASE FEEDER (ABB P/N S1-M3-25)
2	22101224	A/R	COVER, WIRING DUCT, 1 IN.	22	24738924	1	CONTACTOR, 52A, 0 AUX CONT, (ABB AF52-30-00-13)
3	22135818	1	BREAKER, CIRCUIT 6A - 1P	23	24738957	1	INTERLOCK, MECHANICAL (ABB VM96-4)
4	22477244	1	DECAL, GROUND SYMBOL	24	24751232	1	RELAY, OVERLOAD EF96-100
5	23199557	1	BREAKER, MINI-CIR 3A 2P S202-D3	25	24872996	2	CONTACTOR, AF80, 1N/O 1N/C AUX, ABB AF80-30-11-13
6	23464530	A/R	RAIL, 35 mm DIN	26	24874737	1	KIT, CONNECTION YD STARTERS, ABB BEY96-4
7	23618572	1	TRANSFORMER, CONTROL 350VA	27	39203443	1	SUPPRESSOR, ARC
8	23769409	8	BLOCK, TERMINAL 3-LEVEL W/ GROUND	28	39252903	17	BLOCK, TERMINAL
9	23769425	2	BLOCK, TERMINAL END SECTION, 3-LEVEL	29	39252937	6	STOP, DIN RAIL N37-75
10	23769441	2	BLOCK, TERMINAL JUMPER, 3-POLE	30	54612940	3	TERMINAL, END PLATE - ENTRELEC 118 368.16
11	23769458	2	BLOCK, TERMINAL JUMPER, 5-POLE	31	54689849	1	BREAKER, CIRCUIT -
12	23896434	1	JUMPER, 5 POLE	32	93469633	3	TERMINAL, EARTH M4/6.P
13	23908130	1	POWER SUPPLY, 24VDC 50W	33	96747209	4	SCREW, TAPPING HEX WASHER HEAD M6 x 12.00 LONG
14	24099079	1	BLOCK, TERMINAL M8-6 POLE	34	96751722	45	SCREW, TAPPING HEX WASHER HEAD M4 x 10.00 LONG
15	24469710	1	CONTACTOR, AF26, 0 AUX CONT, ABB AF26-30-00-12	35	96767017	6	SCREW, TAPPING HEX WASHER HEAD M4 x 16.00 LONG
16	24474124	1	CONTACT, AUX 1N/C FRONT MOUNT (ABB P/N CA4-01)	36	96767322	2	SCREW, TAPPING HEX WASHER HEAD M6 x 40.00 LONG
17	24474165	1	CONTACT, AUX 2N/O, 2N/C FRONT MOUNT (ABB P/N CA4-22E)	37	47549030001	1	PANEL, BACK (FIXED SPEED STAR DELTA)
18	24474173	1	CONTACT, AUX 1N/O, 1N/C SIDE MOUNT (ABB P/N CAL4-11)				
19	24482812	1	STARTER, MANUAL MTR (ABB P/N MS132-6.3)				
20	24482895	1	CONTACT, AUX 1N/O, 1N/C FRONT MOUNT (ABB P/N HFK1-11)				
				A/R	AS REQUIRED		

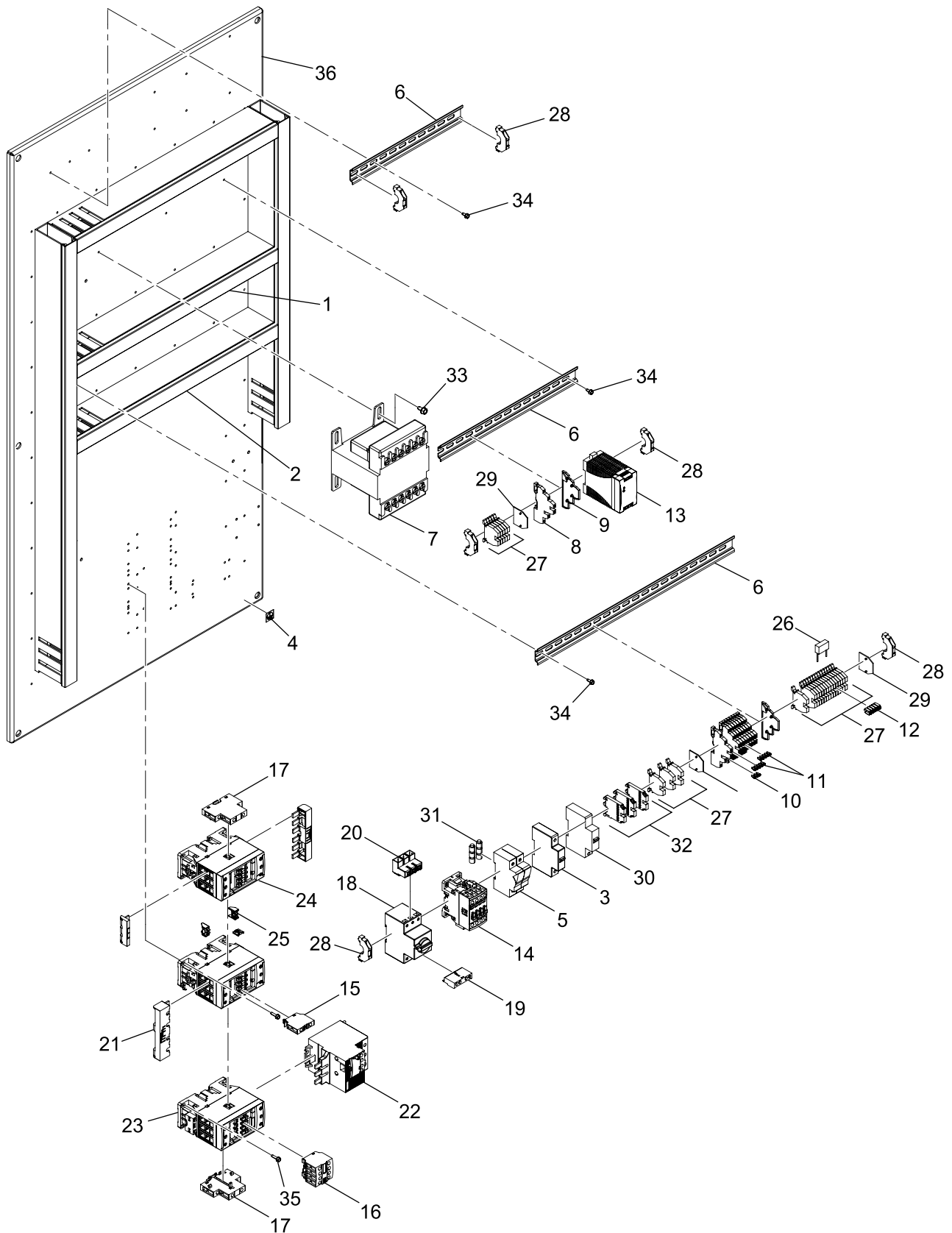
48967772 BACKPANEL S/D (AF116/116/116) ASSEMBLY DRAWING



48967772 BACKPANEL S/D (AF116/116/116) PARTS LIST

Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
1	22101208	A/R	DUCT, WIRING, 1 IN. X 3 IN.	20	24874745	1	KIT, CONNECTION, YD STARTERS (ABB BEY140-4)
2	22101224	A/R	COVER, WIRING DUCT, 1 IN.	21	39203443	1	SUPPRESSOR, ARC
3	22135818	1	BREAKER, CIRCUIT 6A - 1P	22	39252903	17	BLOCK, TERMINAL
4	22477244	1	DECAL, GROUND SYMBOL	23	39252937	6	STOP, DIN RAIL N37-75
5	23199557	1	BREAKER, MINI-CIR 3A 2P S202-D3	24	49018914	1	CONTACT, AUX (CAL19-11)
6	23464530	A/R	RAIL, 35 mm DIN	25	49018922	1	CONTACT, AUX (CAL19-11B)
7	23618572	1	TRANSFORMER, CONTROL 350VA	26	49111826	1	INTERLOCK, MECHANICAL (VM19)
8	23769409	8	BLOCK, TERMINAL 3-LEVEL W/ GROUND	27	54612940	3	TERMINAL, END PLATE - ENTRELEC 118 368.16
9	23769425	2	BLOCK, TERMINAL END SECTION, 3-LEVEL	28	54689849	1	BREAKER, CIRCUIT
10	23769441	2	BLOCK, TERMINAL JUMPER, 3-POLE	29	93469633	3	TERMINAL, EARTH M4/6.P
11	23769458	2	BLOCK, TERMINAL JUMPER, 5-POLE	30	96747209	4	SCREW, TAPPING HEX WASHER HEAD M6 x 12.00 LONG
12	23896434	1	JUMPER, 5 POLE	31	96751722	43	SCREW, TAPPING HEX WASHER HEAD M4 x 10.00 LONG
13	23908130	1	POWER SUPPLY, 24VDC 50W	32	96767017	6	SCREW, TAPPING HEX WASHER HEAD M4 x 16.00 LONG
14	24099079	1	BLOCK, TERMINAL M8-6 POLE	33	96767322	2	SCREW, TAPPING HEX WASHER HEAD M6 x 40.00 LONG
15	24469710	1	CONTACTOR, AF26, 0 AUX CONT, ABB AF26-30-00-12	34	47549030001	1	PANEL, BACK (FIXED SPEED STAR DELTA)
16	24482812	1	STARTER, MANUAL MTR (ABB P/N MS132-6.3)	35	24751240	1	RELAY, OVERLOAD EF146-150
17	24482895	1	CONTACT, AUX 1N/O, 1N/C FRONT MOUNT (ABB P/N HFK1-11)				
18	24482903	1	TERMINAL, 3 PHASE FEEDER (ABB P/N S1-M3-25)	A/R	AS REQUIRED		
19	24873010	3	CONTACTOR, AF116, 1N/O 1N/C AUX, ABB AF116-30-11-13				

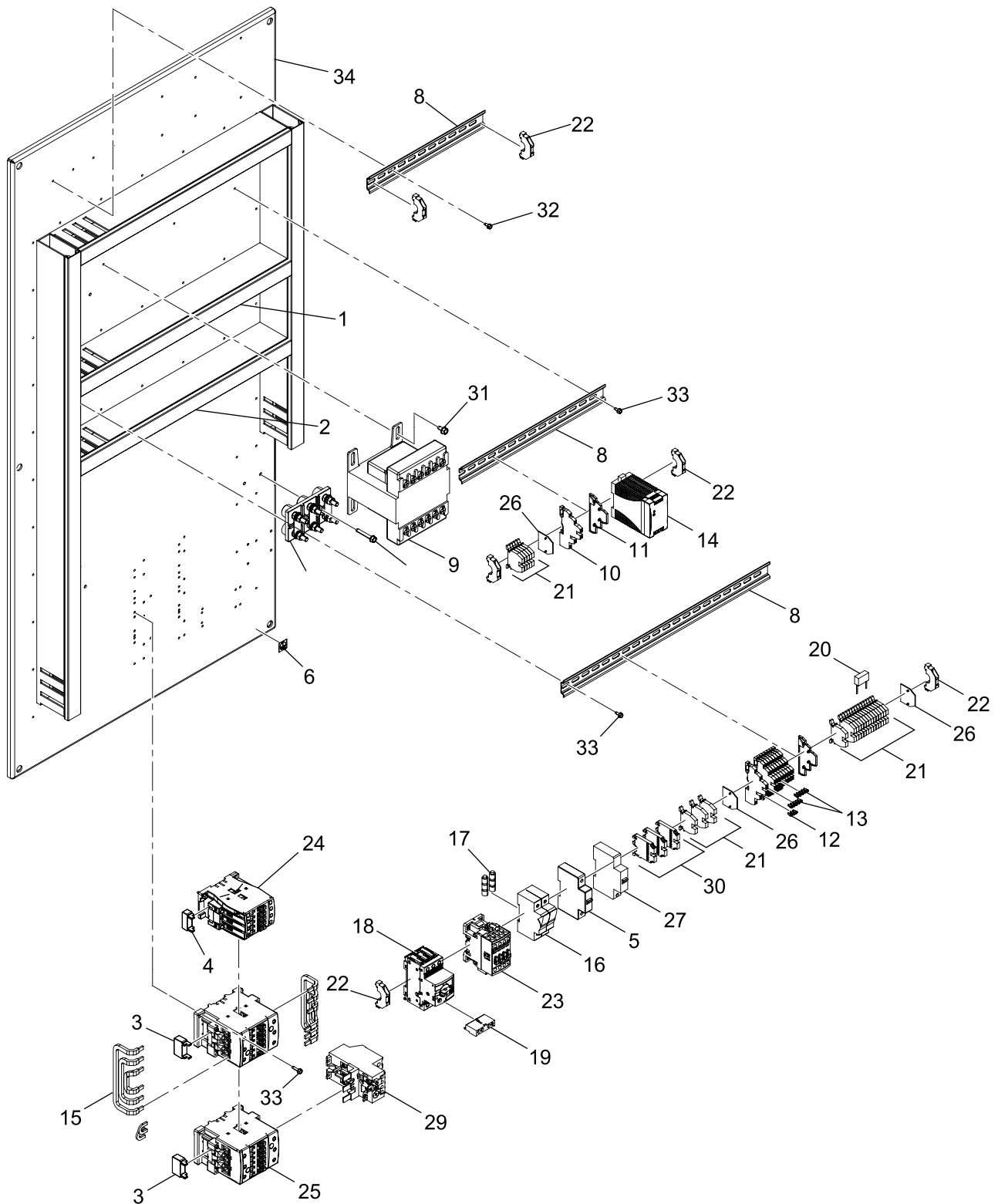
49101777 BACKPANEL S/D (AF52/52/40) ASSEMBLY DRAWING



49101777 BACKPANEL S/D (AF52/52/40) PARTS LIST

Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
1	22101208	A/R	DUCT, WIRING, 1 IN. x 3 IN.	20	24482903	1	TERMINAL, 3 PHASE FEEDER (ABB P/N S1-M3-25)
2	22101224	A/R	COVER, WIRING DUCT, 1 IN.	21	24738908	1	KIT, CONNECTION, YD STARTERS (ABB BEY65-4)
3	22135818	1	BREAKER, CIRCUIT 6A - 1P	22	24738916	1	RELAY, OVERLOAD (ABB EF65-70)
4	22477244	1	DECAL, GROUND SYMBOL	23	24738924	2	CONTACTOR, 52A, 0 AUX CONT, (ABB AF52-30-00-13)
5	22859425	1	BLOCK, FUSE, 2-POLE, 600V, 30A	24	24738940	1	CONTACTOR, 40A, 0 AUX CONT, (ABB AF40-30-00-13)
6	23464530	A/R	RAIL, 35 mm DIN	25	24738957	1	INTERLOCK, MECHANICAL (ABB VM96-4)
7	23618572	1	TRANSFORMER, CONTROL 350VA	26	39203443	1	SUPPRESSOR, ARC
8	23769409	8	BLOCK, TERMINAL 3-LEVEL W/ GROUND	27	39252903	17	BLOCK, TERMINAL
9	23769425	2	BLOCK, TERMINAL END SECTION, 3-LEVEL	28	39252937	6	STOP, DIN RAIL N37-75
10	23769441	2	BLOCK, TERMINAL JUMPER, 3-POLE	29	54612940	3	TERMINAL, END PLATE - ENTRELEC 118 368.16
11	23769458	2	BLOCK, TERMINAL JUMPER, 5-POLE	30	54689849	1	BREAKER, CIRCUIT -
12	23896434	1	JUMPER, 5 POLE	31	85036812	2	FUSE, TIME DELAY, CLASS CC, 2A, 600V, 200KAIC
13	23908130	1	POWER SUPPLY, 24VDC 50W	32	93469633	3	TERMINAL, EARTH M4/6.P
14	24469710	1	CONTACTOR, AF26, 0 AUX CONT, ABB AF26-30-00-12	33	96747209	4	SCREW, TAPPING HEX WASHER HEAD M6 x 12.00 LONG
15	24474124	1	CONTACT, AUX 1N/C FRONT MOUNT (ABB P/N CA4-01)	34	96751722	43	SCREW, TAPPING HEX WASHER HEAD M4 x 10.00 LONG
16	24474165	1	CONTACT, AUX 2N/O, 2N/C FRONT MOUNT (ABB P/N CA4-22E)	35	96767017	6	SCREW, TAPPING HEX WASHER HEAD M4 x 16.00 LONG
17	24474173	2	CONTACT, AUX 1N/O, 1N/C SIDE MOUNT (ABB P/N CAL4-11)	36	47549030001	1	PANEL, BACK (FIXED SPEED STAR DELTA)
18	24482796	1	STARTER, MANUAL MTR (ABB P/N MS132-2.5)				
19	24482895	1	CONTACT, AUX 1N/O, 1N/C FRONT MOUNT (ABB P/N HFK1-11)	A/R	AS REQUIRED		

49106842 BACKPANEL S/D (AX50/50/32) ASSEMBLY DRAWING

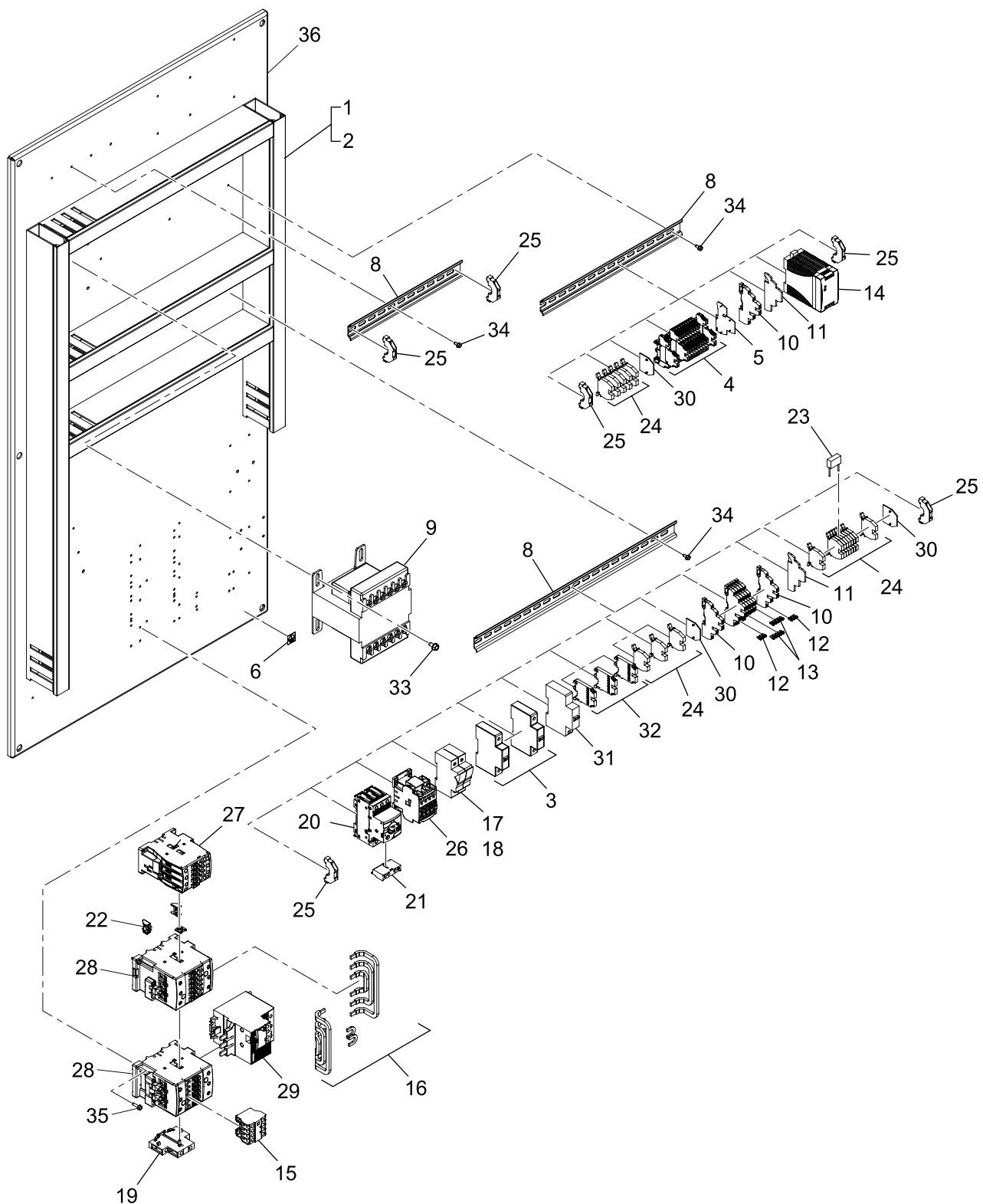


49106842 BACKPANEL S/D (AX50/50/32) PARTS LIST

Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
1	22101208	A/R	DUCT, WIRING, 1 IN. X 3 IN.	20	39203443	1	SUPPRESSOR, ARC
2	22101224	A/R	COVER, WIRING DUCT, 1 IN.	21	39252903	17	BLOCK, TERMINAL
3	22101844	2	SUPPRESSOR, SURGE RC A50 TO A320	22	39252937	7	STOP, DIN RAIL N37-75
4	22102644	1	SUPPRESSOR, SURGE RC A9 TO A40	23	49101967	1	CONTACTOR, AX09, 1N/O AUX, ABB AX09-30-10-84
5	22135818	2	BREAKER, CIRCUIT 6A - 1P	24	49102007	1	CONTACTOR, AX32, 1N/O AUX, ABB AX32-30-10-84
6	22477244	1	DECAL, GROUND SYMBOL	25	49102023	2	CONTACTOR, AX50, 1N/O + 1N/C AUX, ABB AX50-30-11-84
7	23080211**	1	CONTACT, AUX (ABB PN CAL5-11)	26	54612940	3	TERMINAL, END PLATE - ENTRELEC 118 368.16
8	23464530	A/R	RAIL, 35 mm DIN	27	54689849	1	BREAKER, CIRCUIT -
9	23618572	1	TRANSFORMER, CONTROL 350VA	28	88147269**	1	INTERLOCK, MECHANICAL (ABB PN VE5-2)
10	23769409	8	BLOCK, TERMINAL 3-LEVEL W/ GROUND	29	89247779	1	RELAY,O/L 36-52A TA75DU52
11	23769425	2	BLOCK, TERMINAL END SECTION, 3-LEVEL	30	93469633	3	TERMINAL, EARTH M4/6.P
12	23769441	2	BLOCK, TERMINAL JUMPER, 3-POLE	31	96747209	4	SCREW, TAPPING HEX WASHER HEAD M6 x 12.00 LONG
13	23769458	2	BLOCK, TERMINAL JUMPER, 5-POLE	32	96751722	47	SCREW, TAPPING HEX WASHER HEAD M4 x 10.00 LONG
14	23908130	1	POWER SUPPLY, 24VDC 50W	33	96767017	6	SCREW, TAPPING HEX WASHER HEAD M4 x 16.00 LONG
15	23935778	1	KIT, CONNECTION ABB YD STARTERS	34	47549030001	1	PANEL, BACK (FIXED SPEED STAR DELTA)
16	24141962	1	HOLDER, FUSE 2-POLE 10 x 38 mm				
17	24142036	2	FUSE,2A AM, 500V, 10 x 38 mm, OEZ				
18	24482804	1	STARTER, MANUAL MTR (ABB P/N MS132-4.0)				
19	24482895	1	CONTACT, AUX 1N/O, 1N/C FRONT MOUNT (ABB P/N HFK1-11)				

A/R	AS REQUIRED
**	NOT ILLUSTRATED

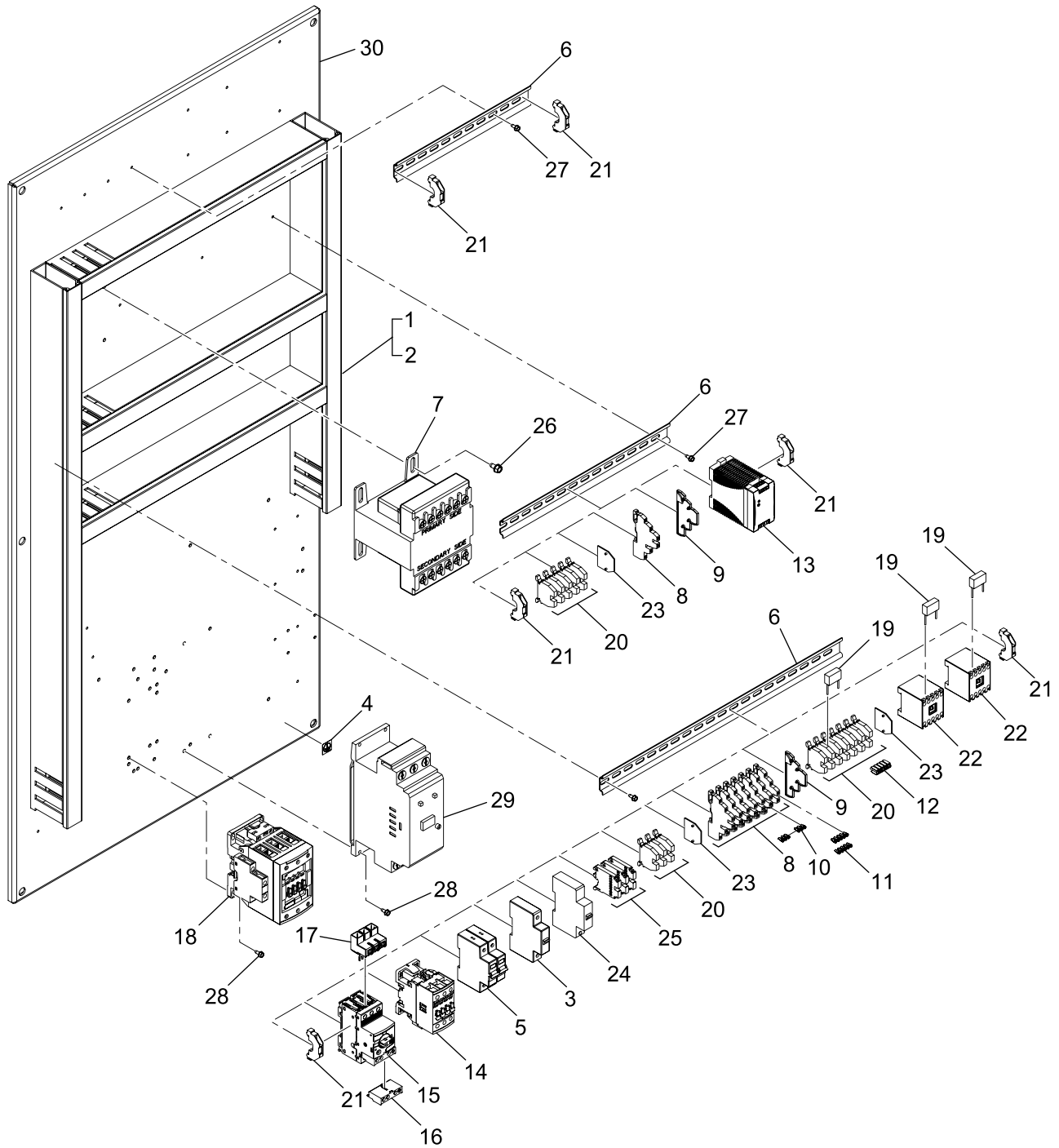
49106859 BACKPANEL S/D (AX65/65/40) ASSEMBLY DRAWING



49106859 BACKPANEL S/D (AX65/65/40) PARTS LIST

Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
1	22101208	A/R	DUCT, WIRING, 1 IN. x 3 IN.	22	24738957	1	INTERLOCK, MECHANICAL (ABB VM96-4)
2	22101224	A/R	COVER, WIRING DUCT, 1 IN.	23	39203443	1	SUPPRESSOR, ARC
3	22135818	2	BREAKER, CIRCUIT 6A - 1P	24	39252903	17	BLOCK, TERMINAL
4	22274831	11	BLOCK, TERMINAL, 2-LEVEL	25	39252937	7	STOP, DIN RAIL N37-75
5	22274864	1	END SECTION, TERMINAL BLOCK 2-LEVEL	26	49101967	1	CONTACTOR, AX09, 1N/O AUX, ABB AX09-30-10-84
6	22477244	1	DECAL, GROUND SYMBOL	27	49102015	1	CONTACTOR, AX40, 1N/O AUX, ABB AX40-30-10-84
7	23080211	1	CONTACT, AUX (ABB PN CAL5-11)	28	49102031	2	CONTACTOR, AX65, 1N/C + 1N/O AUX, ABB AX65-30-11-84
8	23464530	A/R	RAIL, 35 mm DIN	29	49106875	1	RELAY, THERMAL OVERLOAD 44-53A (ABB TF65-53)
9	23618572	1	TRANSFORMER, CONTROL 350VA	30	54612940	3	TERMINAL, END PLATE - ENTRELEC 118 368.16
10	23769409	8	BLOCK, TERMINAL 3-LEVEL W/ GROUND	31	54689849	1	BREAKER, CIRCUIT -
11	23769425	2	BLOCK, TERMINAL END SECTION, 3-LEVEL	32	88147269	1	INTERLOCK, MECHANICAL (ABB PN VE5-2)
12	23769441	2	BLOCK, TERMINAL JUMPER, 3-POLE	33	93469633	3	TERMINAL, EARTH M4/6.P
13	23769458	2	BLOCK, TERMINAL JUMPER, 5-POLE	34	96747209	4	SCREW, TAPPING HEX WASHER HEAD M6 x 12.00 LONG
14	23908130	1	POWER SUPPLY, 24VDC 50W	35	96751722	45	SCREW, TAPPING HEX WASHER HEAD M4 x 10.00 LONG
15	23912173	1	CONTACT, AUX 2NO/2NC (ABB CA5-22E)	36	96767017	8	SCREW, TAPPING HEX WASHER HEAD M4 x 16.00 LONG
16	23935778	1	KIT, CONNECTION ABB YD STARTERS	37	47549030001	1	PANEL, BACK (FIXED SPEED STAR DELTA)
17	24141962	1	HOLDER, FUSE 2-POLE 10 x 38 MM				
18	24142036	2	FUSE, 2A AM, 500V, 10 x 38 mm, OEZ	A/R	AS REQUIRED		
19	24474173	1	CONTACT, AUX 1N/O, 1N/C SIDE MOUNT (ABB P/N CAL4-11)				
20	24482804	1	STARTER, MANUAL MTR (ABB P/N MS132-4.0)				
21	24482895	1	CONTACT, AUX 1N/O, 1N/C FRONT MOUNT (ABB P/N HFK1-11)				

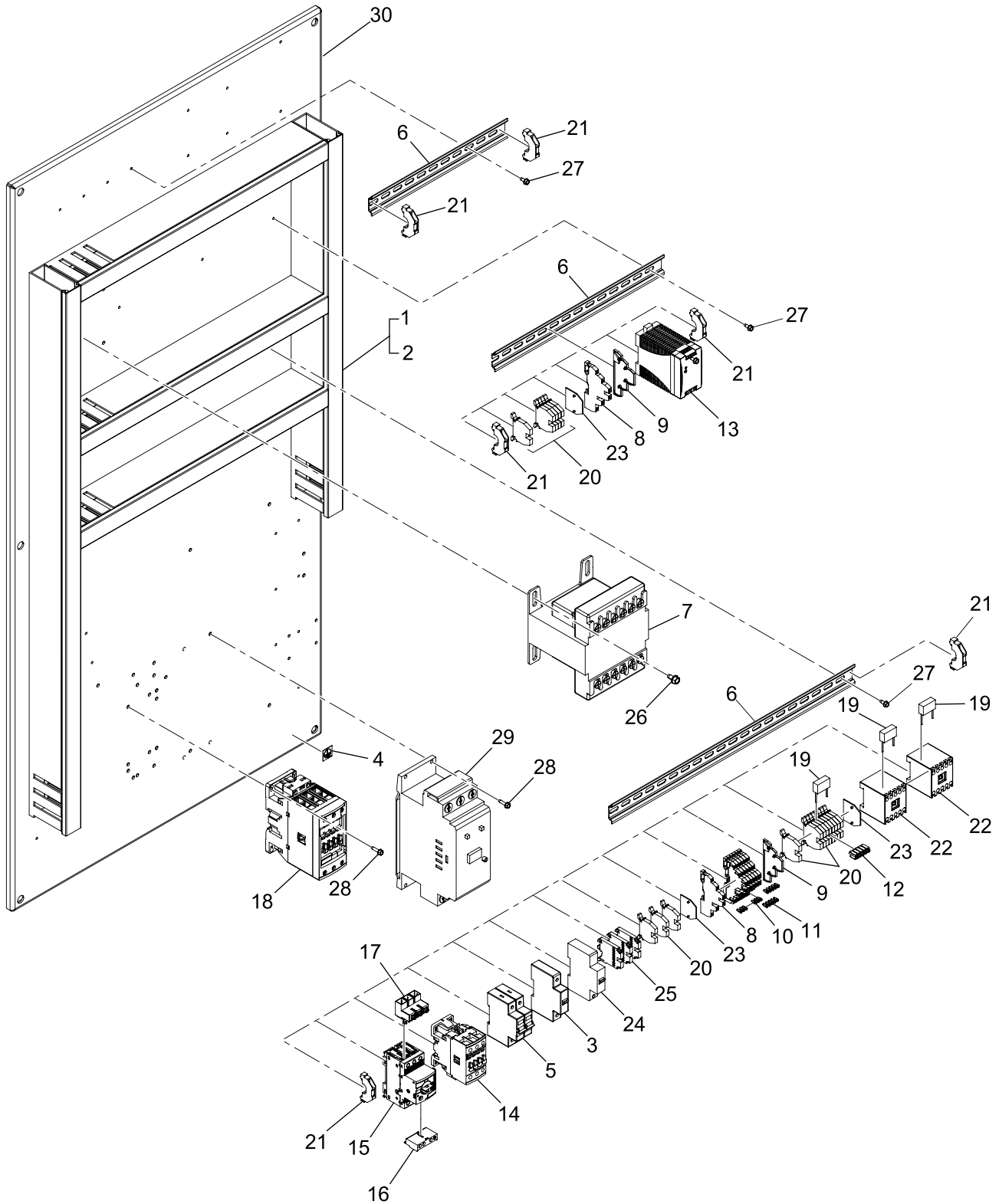
47564789 BACKPANEL S.S. 37 KW 575V 60 HZ ASSEMBLY DRAWING



47564789 BACKPANEL S.S. 37 KW 575V 60 HZ PARTS LIST

Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
1	22101208	A/R	DUCT, WIRING, 1 IN. x 3 IN.	18	24872996	1	CONTACTOR, AF80, 1N/O 1N/C AUX, ABB AF80-30-11-13
2	22101224	A/R	COVER, WIRING DUCT, 1 IN.	19	39203443	3	SUPPRESSOR, ARC
3	22135818	1	BREAKER, CIRCUIT 6A - 1P	20	39252903	15	BLOCK, TERMINAL
4	22477244	1	DECAL, GROUND SYMBOL	21	39252937	6	STOP, DIN RAIL N37-75
5	23199557	1	BREAKER, MINI-CIR 3A 2P S202-D3	22	39266200	2	RELAY, K1-2 N37 KW - 300 hp
6	23464530	A/R	RAIL, 35 mm DIN	23	54612940	3	TERMINAL, END PLATE - ENTRELEC 118 368.16
7	23618572	1	TRANSFORMER, CONTROL 350VA	24	54689849	1	BREAKER, CIRCUIT -
8	23769409	8	BLOCK, TERMINAL 3-LEVEL W/ GROUND	25	93469633	3	TERMINAL, EARTH M4/6.P
9	23769425	2	BLOCK, TERMINAL END SECTION, 3-LEVEL	26	96747209	4	SCREW, TAPPING HEX WASHER HEAD M6 x 12.00 LONG
10	23769441	2	BLOCK, TERMINAL JUMPER, 3-POLE	27	96751722	43	SCREW, TAPPING HEX WASHER HEAD M4 x 10.00 LONG
11	23769458	2	BLOCK, TERMINAL JUMPER, 5-POLE	28	96767017	8	SCREW, TAPPING HEX WASHER HEAD M4 x 16.00 LONG
12	23896434	1	JUMPER, 5 POLE	29	47563475001	1	STARTER, SOLID STATE, SMC-3 (150-C43NCD)
13	23908130	1	POWER SUPPLY, 24VDC 50W	30	47564749001	1	PANEL, BACK (FIXED SPEED STAR DELTA)
14	24469710	1	CONTACTOR, AF26, 0 AUX CONT, ABB AF26-30-00-12				
15	24482796	1	STARTER, MANUAL MTR (ABB P/N MS132-2.5)	A/R	AS REQUIRED		
16	24482895	1	CONTACT, AUX 1N/O, 1N/C FRONT MOUNT (ABB P/N HFK1-11)				
17	24482903	1	TERMINAL, 3 PHASE FEEDER (ABB P/N S1-M3-25)				

47564788 BACKPANEL S.S. 30 KW 575V 60 HZ ASSEMBLY DRAWING

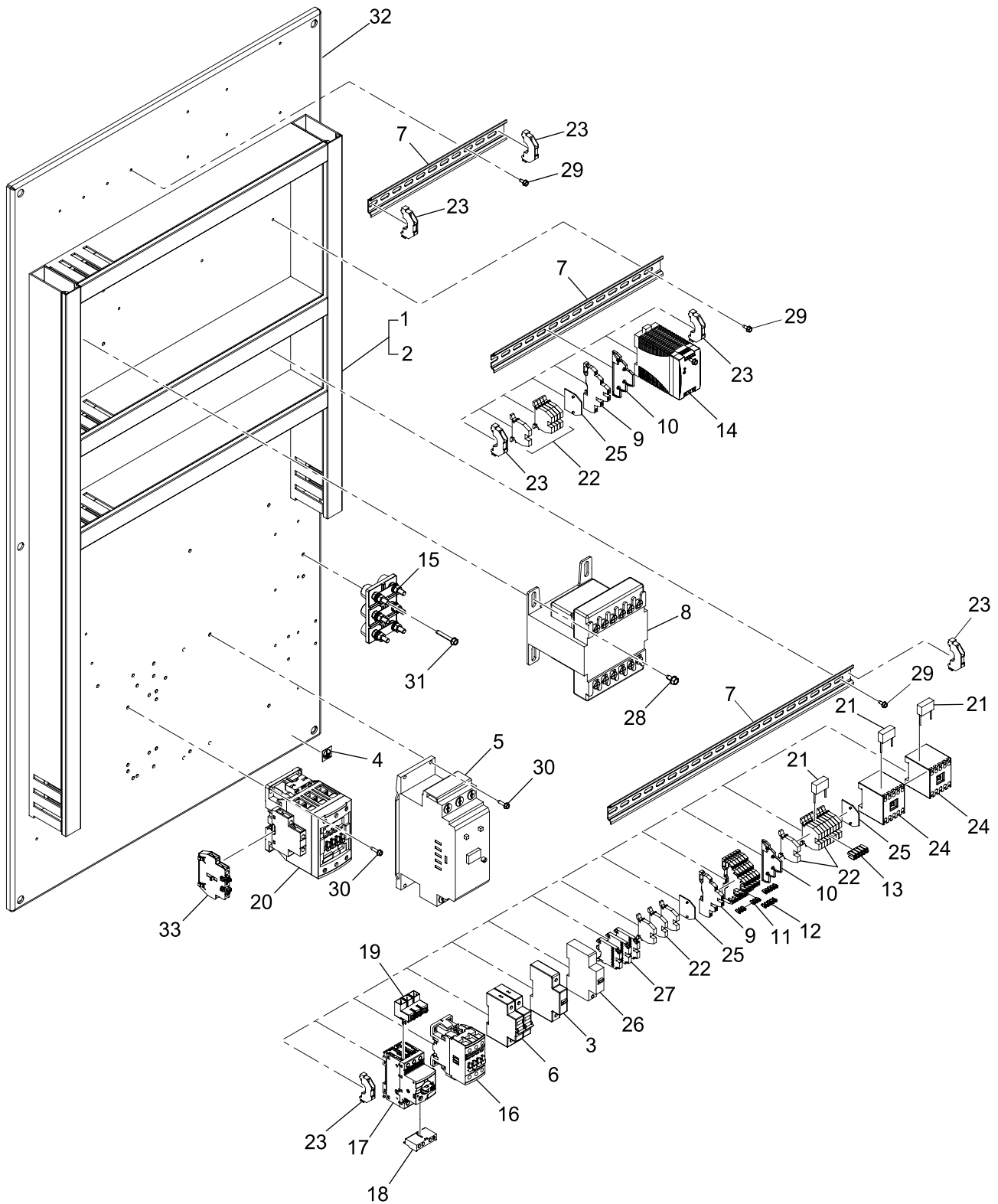


47564788 BACKPANEL S.S. 30 KW 575V 60 HZ PARTS LIST

Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
1	22101208	A/R	DUCT, WIRING, 1 IN. x 3 IN.	18	24738924	1	CONTACTOR, 52A, 0 AUX CONT, (ABB AF52-30-00-13)
2	22101224	A/R	COVER, WIRING DUCT, 1 IN.	19	39203443	3	SUPPRESSOR, ARC
3	22135818	1	BREAKER, CIRCUIT 6A - 1P	20	39252903	15	BLOCK, TERMINAL
4	22477244	1	DECAL, GROUND SYMBOL	21	39252937	6	STOP, DIN RAIL N37-75
5	23199557	1	BREAKER,MINI-CIR 3A 2P S202-D3	22	39266200	2	RELAY, K1-2 N37 kW - 300 hp
6	23464530	A/R	RAIL, 35 mm DIN	23	54612940	3	TERMINAL, END PLATE - ENTRELEC 118 368.16
7	23618572	1	TRANSFORMER, CONTROL 350VA	24	54689849	1	BREAKER, CIRCUIT -
8	23769409	8	BLOCK, TERMINAL 3-LEVEL W/ GROUND	25	93469633	3	TERMINAL, EARTH M4/6.P
9	23769425	2	BLOCK, TERMINAL END SECTION, 3-LEVEL	26	96747209	4	SCREW, TAPPING HEX WASHER HEAD M6 x 12.00 LONG
10	23769441	2	BLOCK, TERMINAL JUMPER, 3-POLE	27	96751722	43	SCREW, TAPPING HEX WASHER HEAD M4 x 10.00 LONG
11	23769458	2	BLOCK, TERMINAL JUMPER, 5-POLE	28	96767017	8	SCREW, TAPPING HEX WASHER HEAD M4 x 16.00 LONG
12	23896434	1	JUMPER, 5 POLE	29	47563475001	1	STARTER, SOLID STATE, SMC-3 (150-C43NCD)
13	23908130	1	POWER SUPPLY, 24VDC 50W	30	47564749001	1	PANEL, BACK (FIXED SPEED STAR DELTA)
14	24469710	1	CONTACTOR, AF26, 0 AUX CONT, ABB AF26-30-00-12				
15	24482796	1	STARTER, MANUAL MTR (ABB P/N MS132-2.5)				
16	24482895	1	CONTACT, AUX 1N/O, 1N/C FRONT MOUNT (ABB P/N HFK1-11)				
17	24482903	1	TERMINAL, 3 PHASE FEEDER (ABB P/N S1-M3-25)				

A/R	AS REQUIRED
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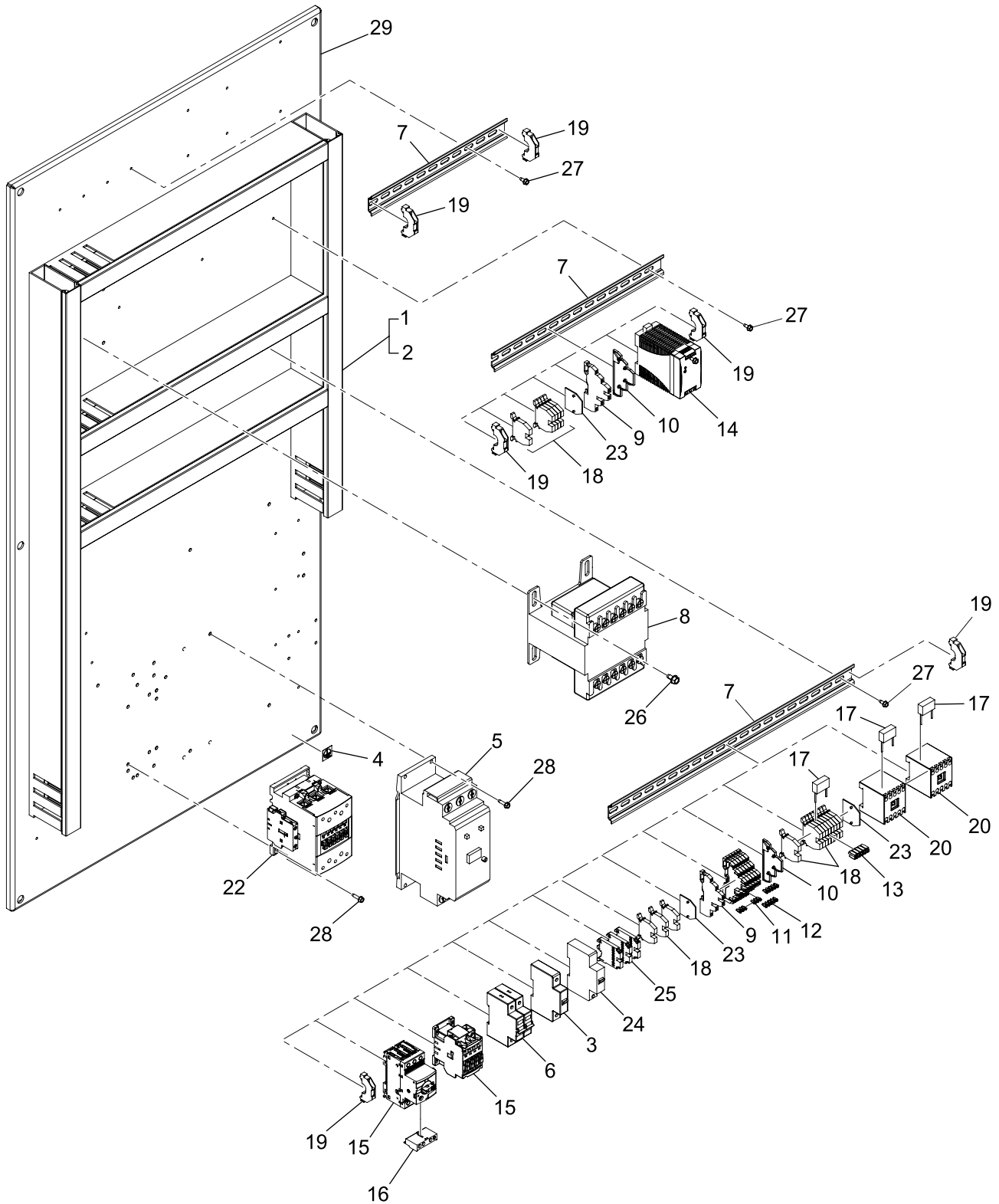
47564757 BACKPANEL S.S. 37 KW 440-480V 60 HZ ASSEMBLY DRAWING



47564757 BACKPANEL S.S. 37 KW 440-480V 60 HZ PARTS LIST

Item	Part No.	Qty	Description	Item	Part No.	Qty	Description	
1	22101208	A/R	DUCT, WIRING, 1 IN. x 3 IN.		20	24873002	1	CONTACTOR, AF96, 1N/O 1N/C AUX, ABB AF96-30-11-13
2	22101224	A/R	COVER, WIRING DUCT, 1 IN.		21	39203443	3	SUPPRESSOR, ARC
3	22135818	1	BREAKER, CIRCUIT 6A - 1P		22	39252903	17	BLOCK, TERMINAL
4	22477244	1	DECAL, GROUND SYMBOL		23	39252937	6	STOP, DIN RAIL N37-75
5	23167265	1	STARTER, SOLID STATE, SMC-3 (150-C60NCD)		24	39266200	2	RELAY, K1-2 N37 kW - 300 hp
6	23199557	1	BREAKER,MINI-CIR 3A 2P S202-D3		25	54612940	3	TERMINAL, END PLATE - ENTRELEC 118 368.16
7	23464530	A/R	RAIL, 35 mm DIN		26	54689849	1	BREAKER, CIRCUIT -
8	23618572	1	TRANSFORMER, CONTROL 350VA		27	93469633	3	TERMINAL, EARTH M4/6.P
9	23769409	8	BLOCK, TERMINAL 3-LEVEL W/ GROUND		28	96747209	4	SCREW, TAPPING HEX WASHER HEAD M6 x 12.00 LONG
10	23769425	2	BLOCK, TERMINAL END SECTION, 3-LEVEL		29	96751722	43	SCREW, TAPPING HEX WASHER HEAD M4 x 10.00 LONG
11	23769441	2	BLOCK, TERMINAL JUMPER, 3-POLE		30	96767017	8	SCREW, TAPPING HEX WASHER HEAD M4 x 16.00 LONG
12	23769458	2	BLOCK, TERMINAL JUMPER, 5-POLE		31	96767322	2	SCREW, TAPPING HEX WASHER HEAD M6 x 40.00 LONG
13	23896434	1	JUMPER, 5 POLE		32	47564749001	1	PANEL, BACK (FIXED SPEED STAR DELTA)
14	23908130	1	POWER SUPPLY, 24VDC 50W		33	49018922	1	CONTACT, AUX (CAL19-11B)
15	24099079	1	BLOCK, TERMINAL M8-6 POLE					
16	24469710	1	CONTACTOR, AF26, 0 AUX CONT, ABB AF26-30-00-12					
17	24482804	1	STARTER, MANUAL MTR (ABB P/N MS132-4.0)					
18	24482895	1	CONTACT, AUX 1N/O, 1N/C FRONT MOUNT (ABB P/N HFK1-11)					
19	24482903	1	TERMINAL, 3 PHASE FEEDER (ABB P/N S1-M3-25)					

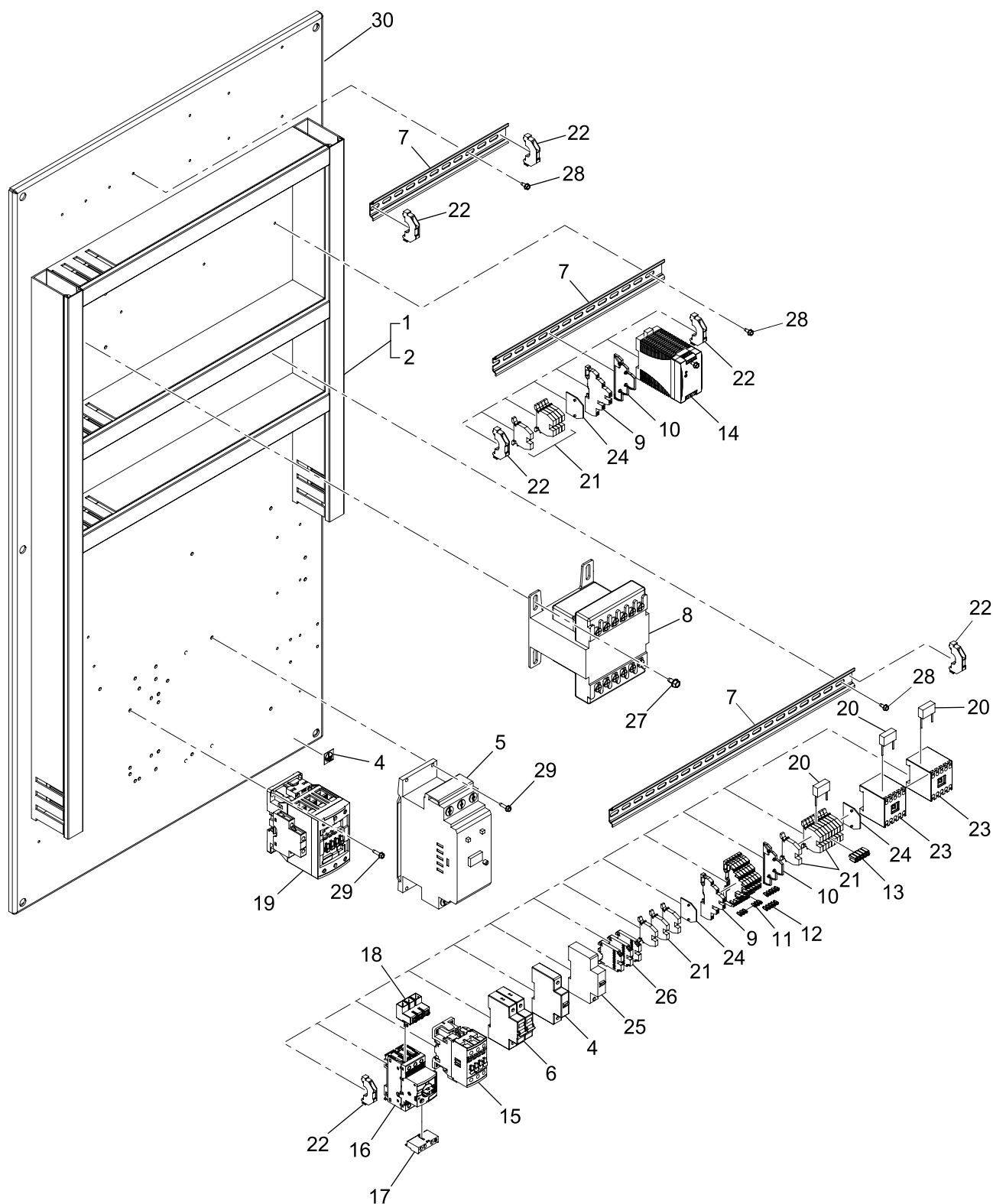
47564756 BACKPANEL S.S. 37 KW 380-415V 50 HZ AP ASSEMBLY DRAWING



47564756 BACKPANEL S.S. 37 KW 380-415V 50 HZ AP PARTS LIST

Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
1	22101208	A/R	DUCT, WIRING, 1 IN. x 3 IN.	18	39252903	15	BLOCK, TERMINAL
2	22101224	A/R	COVER, WIRING DUCT, 1 IN.	19	39252937	6	STOP, DIN RAIL N37-75
3	22135818	1	BREAKER, CIRCUIT 6A - 1P	20	39266200	2	RELAY, K1-2 N37 kW - 300 hp
4	22477244	1	DECAL, GROUND SYMBOL	21	49101967	1	CONTACTOR, AX09, 1N/O AUX, ABB AX09-30-10-84
5	23167265	1	STARTER, SOLID STATE, SMC-3 (150-C60NCD)	22	49102064	1	CONTACTOR, AX95, 1N/O 1N/C AUX, ABB AX95-30-11-84
6	23199557	1	BREAKER,MINI-CIR 3A 2P S202-D3	23	54612940	3	TERMINAL, END PLATE - ENTRELEC 118 368.16
7	23464530	A/R	RAIL, 35 mm DIN	24	54689849	1	BREAKER, CIRCUIT -
8	23618572	1	TRANSFORMER, CONTROL 350VA	25	93469633	3	TERMINAL, EARTH M4/6.P
9	23769409	8	BLOCK, TERMINAL 3-LEVEL W/ GROUND	26	96747209	4	SCREW, TAPPING HEX WASHER HEAD M6 x 12.00 LONG
10	23769425	2	BLOCK, TERMINAL END SECTION, 3-LEVEL	27	96751722	43	SCREW, TAPPING HEX WASHER HEAD M4 x 10.00 LONG
11	23769441	2	BLOCK, TERMINAL JUMPER, 3-POLE	28	96767017	6	SCREW, TAPPING HEX WASHER HEAD M4 x 16.00 LONG
12	23769458	2	BLOCK, TERMINAL JUMPER, 5-POLE	29	47564749001	1	PANEL, BACK (FIXED SPEED STAR DELTA)
13	23896434	1	JUMPER, 5 POLE				
14	23908130	1	POWER SUPPLY, 24VDC 50W				
15	24482804	1	STARTER, MANUAL MTR (ABB P/N MS132-4.0)				
16	24482895	1	CONTACT, AUX 1N/O, 1N/C FRONT MOUNT (ABB P/N HFK1-11)				
17	39203443	3	SUPPRESSOR, ARC				

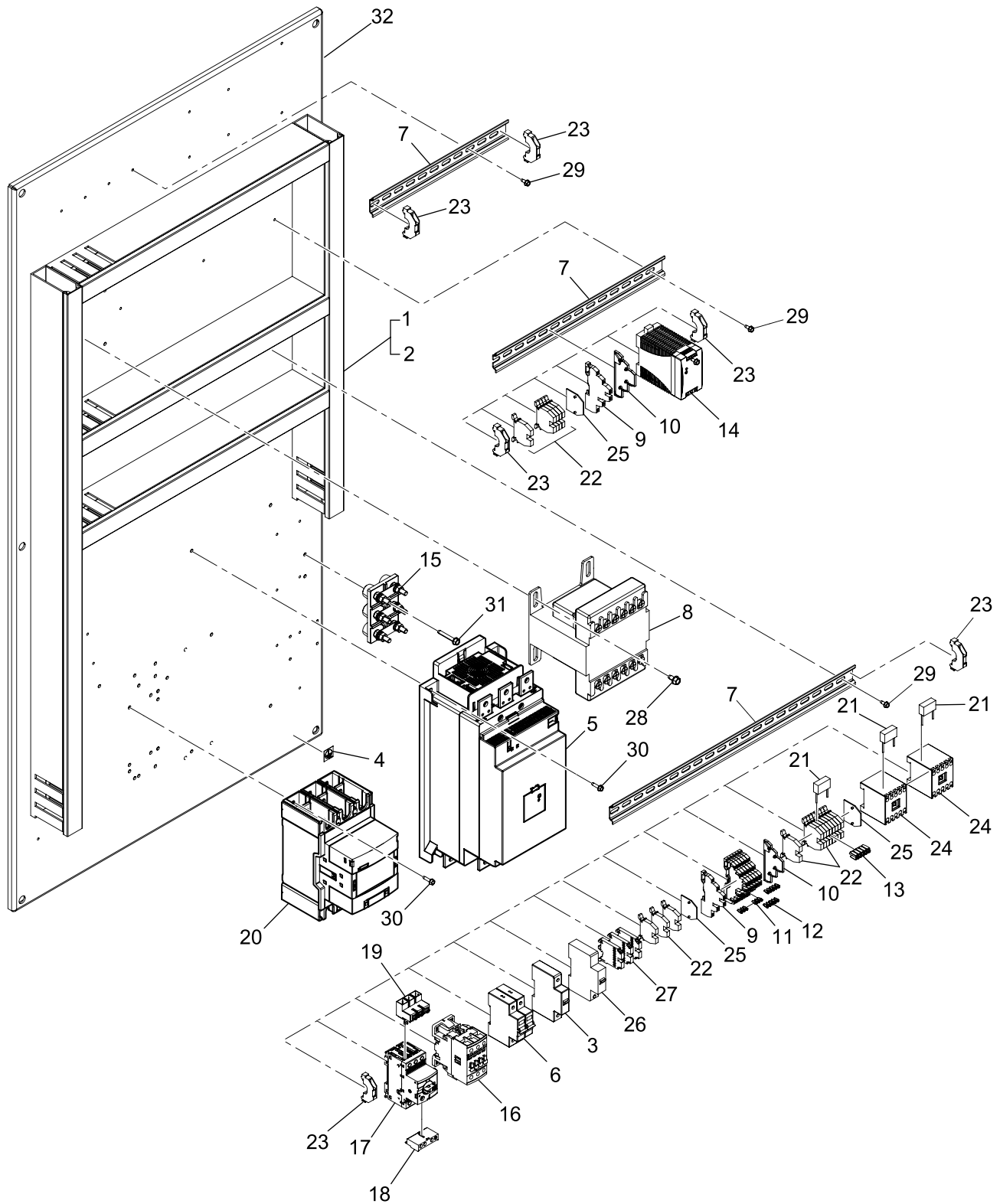
47564755 BACKPANEL S.S. 37 KW 380-415V 50 HZ EMEA ASSEMBLY DRAWING



47564755 BACKPANEL S.S. 37 KW 380-415V 50 HZ EMEA PARTS LIST

Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
1	22101208	A/R	DUCT, WIRING, 1 IN. x 3 IN.	18	24482903	1	TERMINAL, 3 PHASE FEEDER (ABB P/N S1-M3-25)
2	22101224	A/R	COVER, WIRING DUCT, 1 IN.	19	24873002	1	CONTACTOR, AF96, 1N/O 1N/C AUX, ABB AF96-30-11-13
3	22135818	1	BREAKER, CIRCUIT 6A - 1P	20	39203443	3	SUPPRESSOR, ARC
4	22477244	1	DECAL, GROUND SYMBOL	21	39252903	15	BLOCK, TERMINAL
5	23167265	1	STARTER, SOLID STATE, SMC-3 (150-C60NCD)	22	39252937	6	STOP, DIN RAIL N37-75
6	23199557	1	BREAKER, MINI-CIR 3A 2P S202-D3	23	39266200	2	RELAY, K1-2 N37 kW - 300 hp
7	23464530	A/R	RAIL, 35 mm DIN	24	54612940	3	TERMINAL, END PLATE - ENTRELEC 118 368.16
8	23618572	1	TRANSFORMER, CONTROL 350VA	25	54689849	1	BREAKER, CIRCUIT -
9	23769409	8	BLOCK, TERMINAL 3-LEVEL W/ GROUND	26	93469633	3	TERMINAL, EARTH M4/6.P
10	23769425	2	BLOCK, TERMINAL END SECTION, 3-LEVEL	27	96747209	4	SCREW, TAPPING HEX WASHER HEAD M6 x 12.00 LONG
11	23769441	2	BLOCK, TERMINAL JUMPER, 3-POLE	28	96751722	43	SCREW, TAPPING HEX WASHER HEAD M4 x 10.00 LONG
12	23769458	2	BLOCK, TERMINAL JUMPER, 5-POLE	29	96767017	8	SCREW, TAPPING HEX WASHER HEAD M4 x 16.00 LONG
13	23896434	1	JUMPER, 5 POLE	30	47564749001	1	PANEL, BACK (FIXED SPEED STAR DELTA)
14	23908130	1	POWER SUPPLY, 24VDC 50W				
15	24469710	1	CONTACTOR, AF26, 0 AUX CONT, ABB AF26-30-00-12	A/R	AS REQUIRED		
16	24482804	1	STARTER, MANUAL MTR (ABB P/N MS132-4.0)				
17	24482895	1	CONTACT, AUX 1N/O, 1N/C FRONT MOUNT (ABB P/N HFK1-11)				

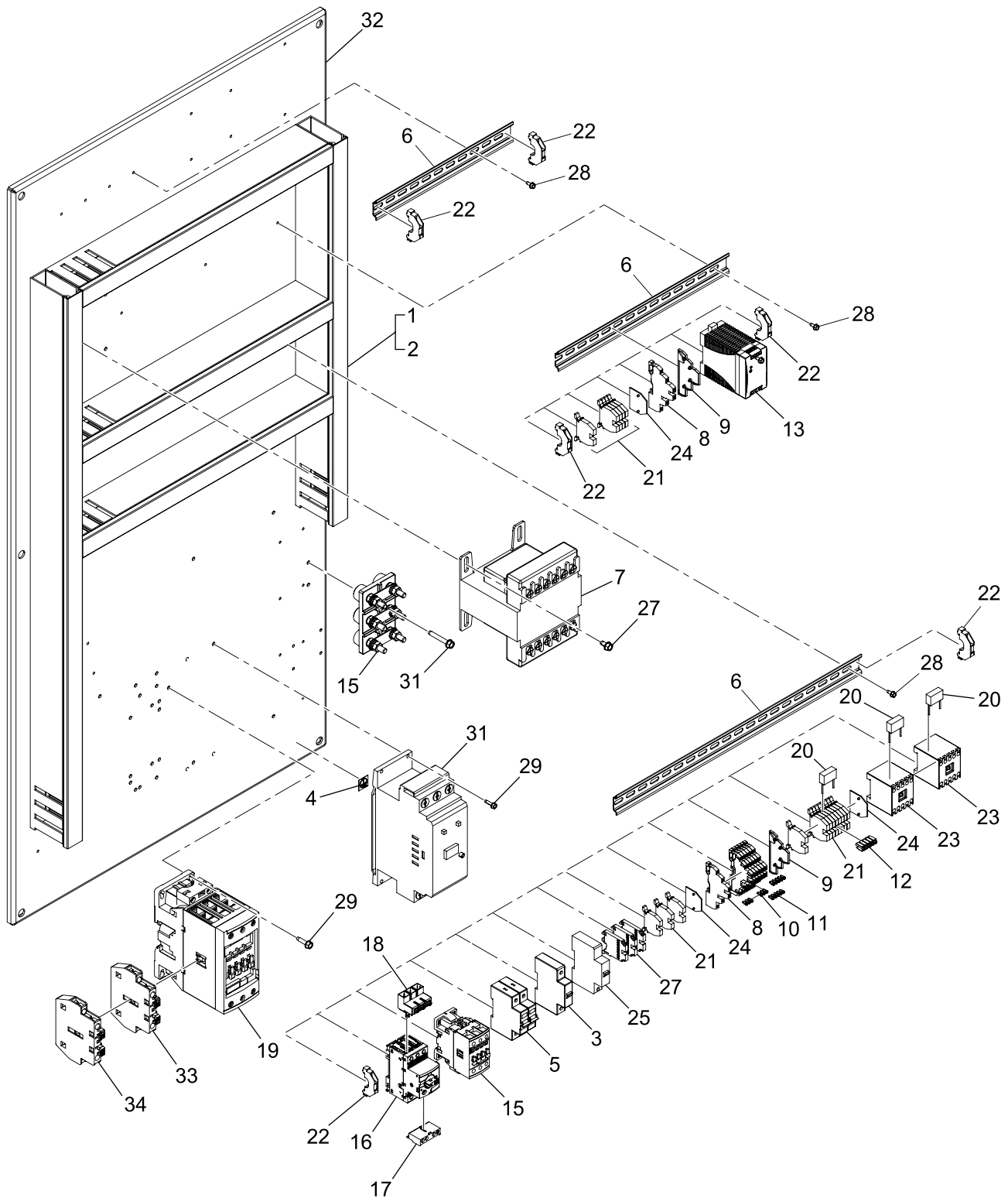
47564754 BACKPANEL S.S. 37 KW 200-230V 60 HZ ASSEMBLY DRAWING



47564754 BACKPANEL S.S. 37 KW 200-230V 60 HZ PARTS LIST

Item	Part No.	Qty	Description	Item	Part No.	Qty	Description	
1	22101208	A/R	DUCT, WIRING, 1 IN. x 3 IN.		20	24873051	1	CONTACTOR, AF265, 1N/O 1N/C AUX, ABB AF265-30-11-13
2	22101224	A/R	COVER, WIRING DUCT, 1 IN.		21	39203443	3	SUPPRESSOR, ARC
3	22135818	1	BREAKER, CIRCUIT 6A - 1P		22	39252903	15	BLOCK, TERMINAL
4	22477244	1	DECAL, GROUND SYMBOL		23	39252937	6	STOP, DIN RAIL N37-75
5	23138779	1	STARTER, SOLID STATE, SMC-3 (150-C108NCD)		24	39266200	2	RELAY, K1-2 N37 kW - 300 hp
6	23199557	1	BREAKER,MINI-CIR 3A 2P S202-D3		25	54612940	3	TERMINAL, END PLATE - ENTRELEC 118 368.16
7	23464530	A/R	RAIL, 35 mm DIN		26	54689849	1	BREAKER, CIRCUIT -
8	23618572	1	TRANSFORMER, CONTROL 350VA		27	93469633	3	TERMINAL, EARTH M4/6.P
9	23769409	8	BLOCK, TERMINAL 3-LEVEL W/ GROUND		28	96747209	4	SCREW, TAPPING HEX WASHER HEAD M6 x 12.00 LONG
10	23769425	2	BLOCK, TERMINAL END SECTION, 3-LEVEL		29	96751722	43	SCREW, TAPPING HEX WASHER HEAD M4 x 10.00 LONG
11	23769441	2	BLOCK, TERMINAL JUMPER, 3-POLE		30	96767017	4	SCREW, TAPPING HEX WASHER HEAD M4 x 16.00 LONG
12	23769458	2	BLOCK, TERMINAL JUMPER, 5-POLE		31	96767322	2	SCREW, TAPPING HEX WASHER HEAD M6 x 40.00 LONG
13	23896434	1	JUMPER, 5 POLE		32	47564749001	1	PANEL, BACK (FIXED SPEED STAR DELTA)
14	23908130	1	POWER SUPPLY, 24VDC 50W					
15	24099079	1	BLOCK, TERMINAL M8-6 POLE					
16	24469710	1	CONTACTOR, AF26, 0 AUX CONT, ABB AF26-30-00-12					
17	24482812	1	STARTER, MANUAL MTR (ABB P/N MS132-6.3)					
18	24482895	1	CONTACT, AUX 1N/O, 1N/C FRONT MOUNT (ABB P/N HFK1-11)					
19	24482903	1	TERMINAL, 3 PHASE FEEDER (ABB P/N S1-M3-25)					

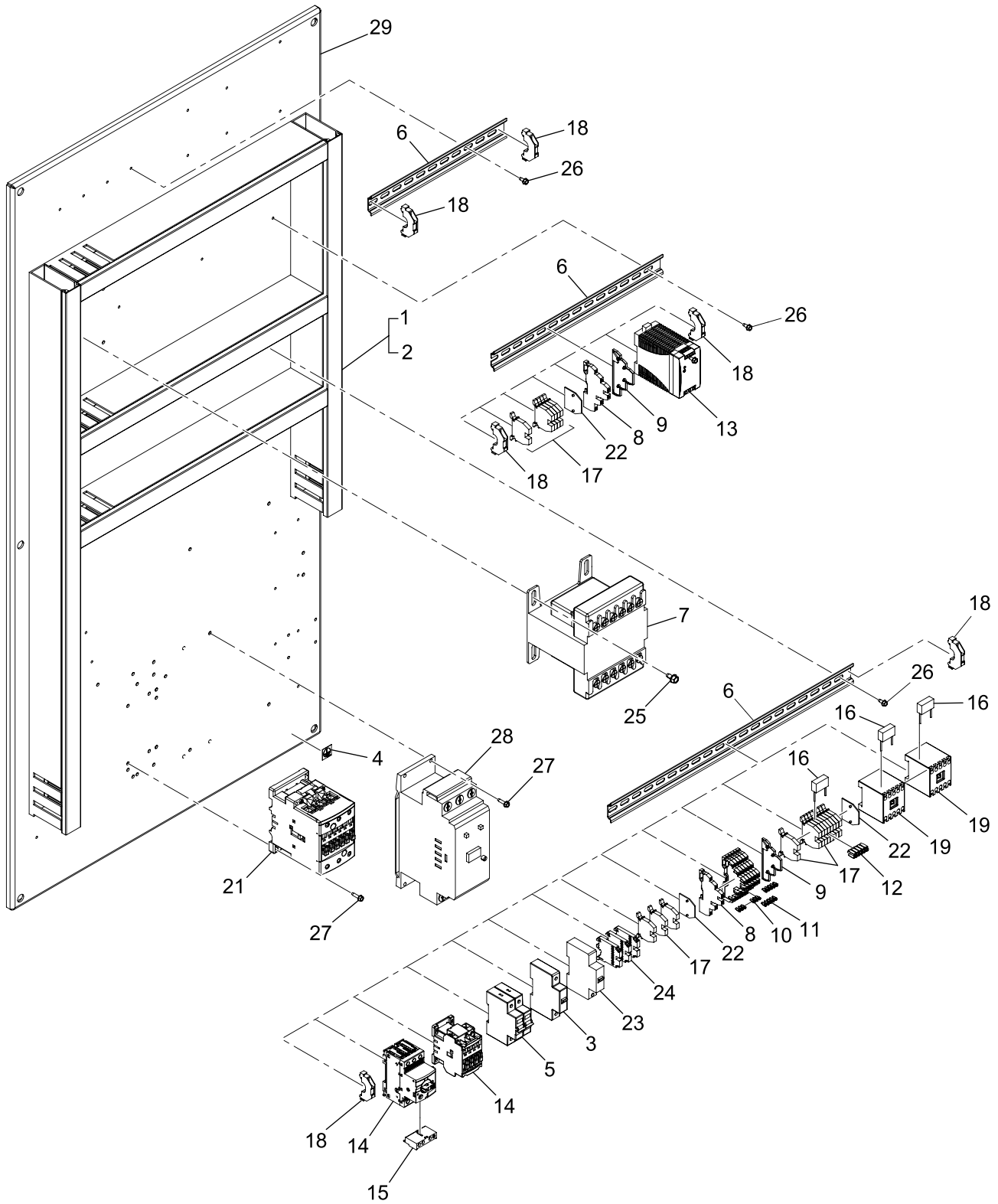
47564753 BACKPANEL S.S. 30 KW 440-480V 60 HZ ASSEMBLY DRAWING



47564753 BACKPANEL S.S. 30 KW 440-480V 60 HZ PARTS LIST

Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
1	22101208	A/R	DUCT, WIRING, 1 IN. x 3 IN.	20	39203443	3	SUPPRESSOR, ARC
2	22101224	A/R	COVER, WIRING DUCT, 1 IN.	21	39252903	17	BLOCK, TERMINAL
3	22135818	1	BREAKER, CIRCUIT 6A - 1P	22	39252937	6	STOP, DIN RAIL N37-75
4	22477244	1	DECAL, GROUND SYMBOL	23	39266200	2	RELAY, K1-2 N37 kW - 300 hp
5	23199557	1	BREAKER, MINI-CIR 3A 2P S202-D3	24	54612940	3	TERMINAL, END PLATE - ENTRELEC 118 368.16
6	23464530	A/R	RAIL, 35 mm DIN	25	54689849	1	BREAKER, CIRCUIT -
7	23618572	1	TRANSFORMER, CONTROL 350VA	26	93469633	3	TERMINAL, EARTH M4/6.P
8	23769409	8	BLOCK, TERMINAL 3-LEVEL W/ GROUND	27	96747209	4	SCREW, TAPPING HEX WASHER HEAD M6 x 12.00 LONG
9	23769425	2	BLOCK, TERMINAL END SECTION, 3-LEVEL	28	96751722	43	SCREW, TAPPING HEX WASHER HEAD M4 x 10.00 LONG
10	23769441	2	BLOCK, TERMINAL JUMPER, 3-POLE	29	96767017	8	SCREW, TAPPING HEX WASHER HEAD M4 x 16.00 LONG
11	23769458	2	BLOCK, TERMINAL JUMPER, 5-POLE	30	96767322	2	SCREW, TAPPING HEX WASHER HEAD M6 x 40.00 LONG
12	23896434	1	JUMPER, 5 POLE	31	47563475001	1	STARTER, SOLID STATE, SMC-3 (150-C43NCD)
13	23908130	1	POWER SUPPLY, 24VDC 50W	32	47564749001	1	PANEL, BACK (FIXED SPEED STAR DELTA)
14	24099079	1	BLOCK, TERMINAL M8-6 POLE	33	49018914	1	CONTACT, AUX (CAL19-11)
15	24469710	1	CONTACTOR, AF26, 0 AUX CONT, ABB AF26-30-00-12	34	49018922	1	CONTACT, AUX (CAL19-11B)
16	24482804	1	STARTER, MANUAL MTR (ABB P/N MS132-4.0)				
17	24482895	1	CONTACT, AUX 1N/O, 1N/C FRONT MOUNT (ABB P/N HFK1-11)				
18	24482903	1	TERMINAL, 3 PHASE FEEDER (ABB P/N S1-M3-25)				
19	24738932	1	CONTACTOR, 65A, 0 AUX CONT, (ABB AF65-30-00-13)				
				A/R	AS REQUIRED		

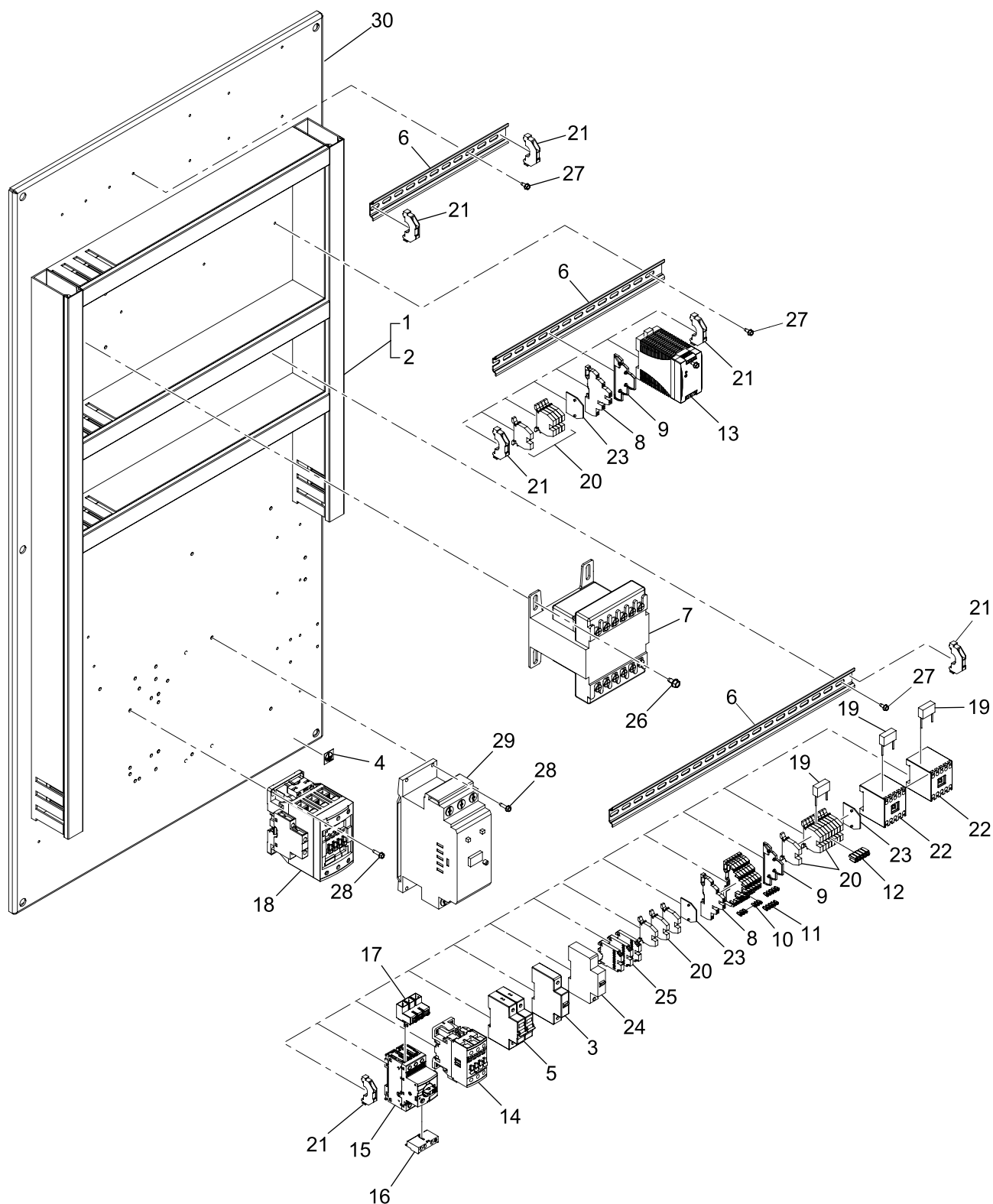
47564752 BACKPANEL S.S. 30 KW 380-415V 50 HZ AP ASSEMBLY DRAWING



47564752 BACKPANEL S.S. 30 KW 380-415V 50 HZ AP PARTS LIST

Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
1	22101208	A/R	DUCT, WIRING, 1 IN. x 3 IN.	18	39252937	6	STOP, DIN RAIL N37-75
2	22101224	A/R	COVER, WIRING DUCT, 1 IN.	19	39266200	2	RELAY, K1-2 N37 kW - 300 hp
3	22135818	1	BREAKER, CIRCUIT 6A - 1P	20	49101967	1	CONTACTOR, AX09, 1N/O AUX, ABB AX09-30-10-84
4	22477244	1	DECAL, GROUND SYMBOL	21	49102056	1	CONTACTOR, AX80, 0 AUX, ABB AX80-30-00-84
5	23199557	1	BREAKER, MINI-CIR 3A 2P S202-D3	22	54612940	3	TERMINAL, END PLATE - ENTRELEC 118 368.16
6	23464530	A/R	RAIL, 35 mm DIN	23	54689849	1	BREAKER, CIRCUIT -
7	23618572	1	TRANSFORMER, CONTROL 350VA	24	93469633	3	TERMINAL, EARTH M4/6.P
8	23769409	8	BLOCK, TERMINAL 3-LEVEL W/ GROUND	25	96747209	4	SCREW, TAPPING HEX WASHER HEAD M6 x 12.00 LONG
9	23769425	2	BLOCK, TERMINAL END SECTION, 3-LEVEL	26	96751722	43	SCREW, TAPPING HEX WASHER HEAD M4 x 10.00 LONG
10	23769441	2	BLOCK, TERMINAL JUMPER, 3-POLE	27	96767017	6	SCREW, TAPPING HEX WASHER HEAD M4 x 16.00 LONG
11	23769458	2	BLOCK, TERMINAL JUMPER, 5-POLE	28	47563475001	1	STARTER, SOLID STATE, SMC-3 (150-C43NCD)
12	23896434	1	JUMPER, 5 POLE	29	47564749001	1	PANEL, BACK (FIXED SPEED STAR DELTA)
13	23908130	1	POWER SUPPLY, 24VDC 50W				
14	24482804	1	STARTER, MANUAL MTR (ABB P/N MS132-4.0)				
15	24482895	1	CONTACT, AUX 1N/O, 1N/C FRONT MOUNT (ABB P/N HFK1-11)				
16	39203443	3	SUPPRESSOR, ARC				
17	39252903	15	BLOCK, TERMINAL				
				A/R	AS REQUIRED		

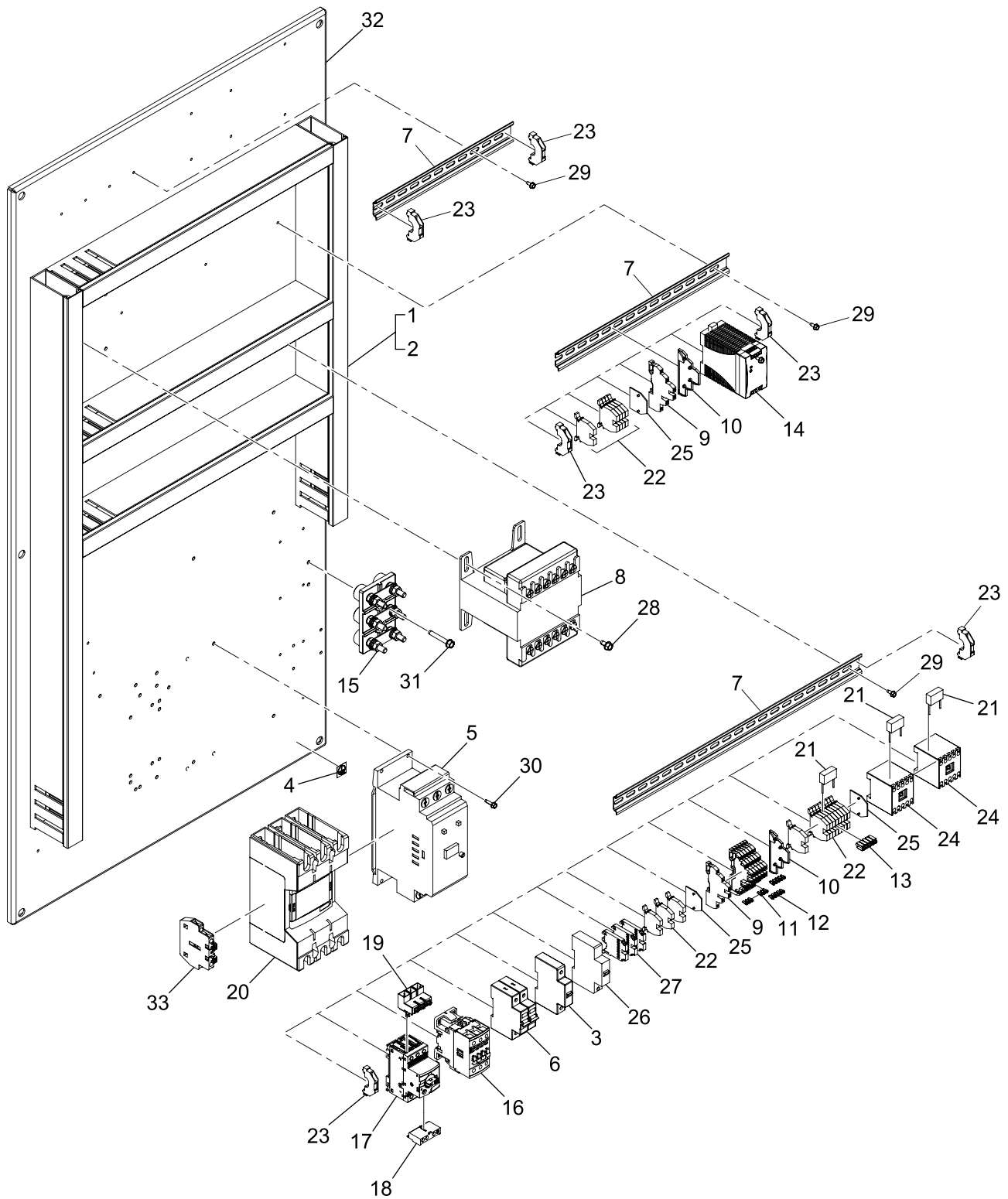
47564751 BACKPANEL S.S. 30 KW 380-415V 50 HZ EMEA ASSEMBLY DRAWING



47564751 BACKPANEL S.S. 30 KW 380-415V 50 HZ EMEA PARTS LIST

Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
1	22101208	A/R	DUCT, WIRING, 1 IN. x 3 IN.	18	24872996	1	CONTACTOR, AF80, 1N/O 1N/C AUX, ABB AF80-30-11-13
2	22101224	A/R	COVER, WIRING DUCT, 1 IN.	19	39203443	3	SUPPRESSOR, ARC
3	22135818	1	BREAKER, CIRCUIT 6A - 1P	20	39252903	15	BLOCK, TERMINAL
4	22477244	1	DECAL, GROUND SYMBOL	21	39252937	6	STOP, DIN RAIL N37-75
5	23199557	1	BREAKER, MINI-CIR 3A 2P S202-D3	22	39266200	2	RELAY, K1-2 N37 KW - 300 hp
6	23464530	A/R	RAIL, 35 mm DIN	23	54612940	3	TERMINAL, END PLATE - ENTRELEC 118 368.16
7	23618572	1	TRANSFORMER, CONTROL 350VA	24	54689849	1	BREAKER, CIRCUIT -
8	23769409	8	BLOCK, TERMINAL 3-LEVEL W/ GROUND	25	93469633	3	TERMINAL, EARTH M4/6.P
9	23769425	2	BLOCK, TERMINAL END SECTION, 3-LEVEL	26	96747209	4	SCREW, TAPPING HEX WASHER HEAD M6 x 12.00 LONG
10	23769441	2	BLOCK, TERMINAL JUMPER, 3-POLE	27	96751722	43	SCREW, TAPPING HEX WASHER HEAD M4 x 10.00 LONG
11	23769458	2	BLOCK, TERMINAL JUMPER, 5-POLE	28	96767017	8	SCREW, TAPPING HEX WASHER HEAD M4 x 16.00 LONG
12	23896434	1	JUMPER, 5 POLE	29	47563475001	1	STARTER, SOLID STATE, SMC-3 (150-C43NCD)
13	23908130	1	POWER SUPPLY, 24VDC 50W	30	47564749001	1	PANEL, BACK (FIXED SPEED STAR DELTA)
14	24469710	1	CONTACTOR, AF26, 0 AUX CONT, ABB AF26-30-00-12				
15	24482804	1	STARTER, MANUAL MTR (ABB P/N MS132-4.0)	A/R	AS REQUIRED		
16	24482895	1	CONTACT, AUX 1N/O, 1N/C FRONT MOUNT (ABB P/N HFK1-11)				
17	24482903	1	TERMINAL, 3 PHASE FEEDER (ABB P/N S1-M3-25)				

47564750 BACKPANEL S.S. 30 KW 200-230V 60 HZ ASSEMBLY DRAWING

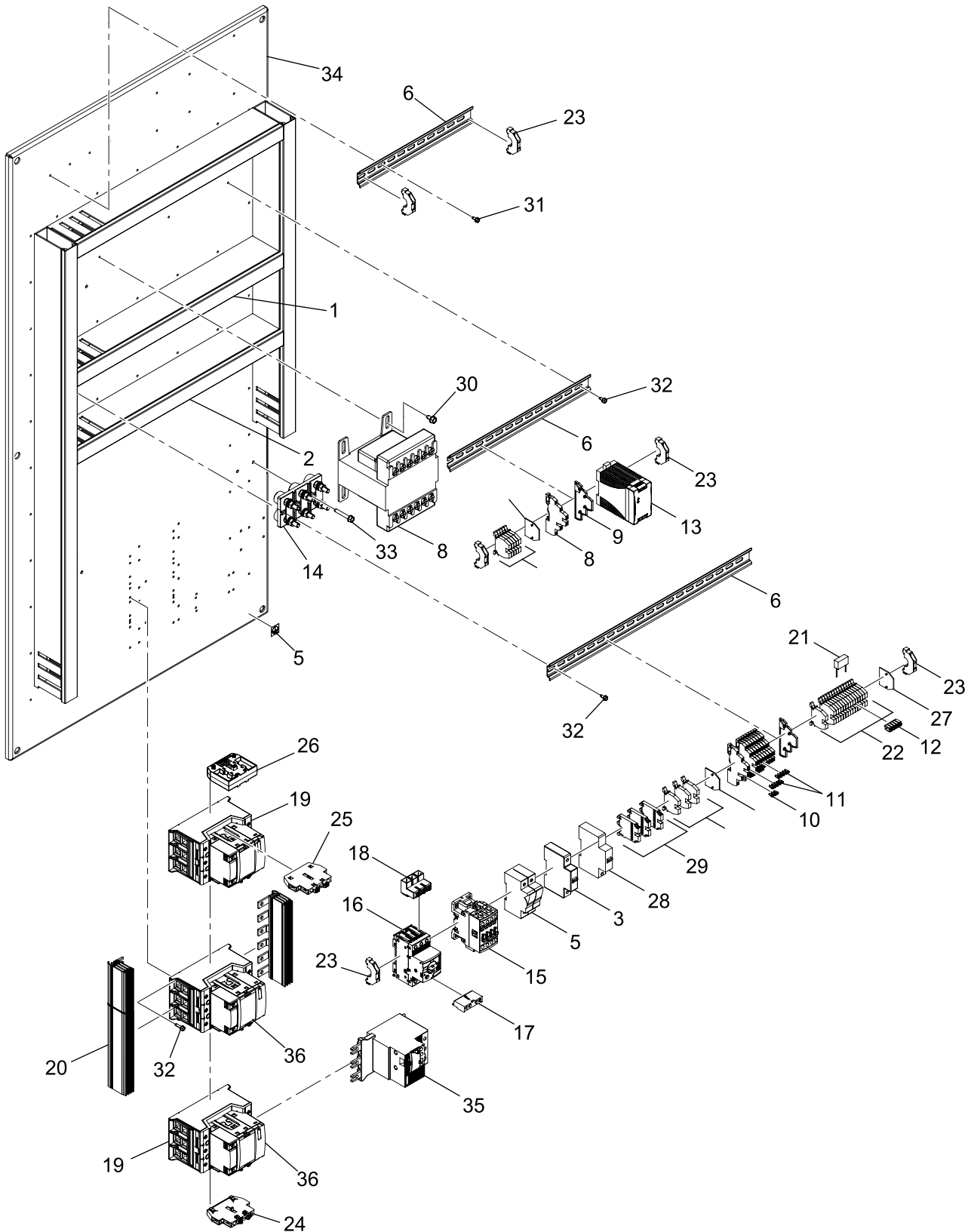


47564750 BACKPANEL S.S. 30 KW 200-230V 60 HZ PARTS LIST

Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
1	22101208	A/R	DUCT, WIRING, 1 IN. x 3 IN.	20	24873036	1	CONTACTOR, AF190, 1N/O 1N/C AUX, ABB AF190-30-11-13
2	22101224	A/R	COVER, WIRING DUCT, 1 IN.	21	39203443	3	SUPPRESSOR, ARC
3	22135818	1	BREAKER, CIRCUIT 6A - 1P	22	39252903	17	BLOCK, TERMINAL
4	22477244	1	DECAL, GROUND SYMBOL	23	39252937	6	STOP, DIN RAIL N37-75
5	23167257	1	STARTER, SOLID STATE (A-B P/N 150 - C85NCD)	24	39266200	2	RELAY, K1-2 N37 KW - 300 hp
6	23199557	1	BREAKER, MINI-CIR 3A 2P S202-D3	25	54612940	3	TERMINAL, END PLATE - ENTRELEC 118 368.16
7	23464530	A/R	RAIL, 35 mm DIN	26	54689849	1	BREAKER, CIRCUIT
8	23618572	1	TRANSFORMER, CONTROL 350VA	27	93469633	3	TERMINAL, EARTH M4/6.P
9	23769409	8	BLOCK, TERMINAL 3-LEVEL W/ GROUND	28	96747209	4	SCREW, TAPPING HEX WASHER HEAD M6 x 12.00 LONG
10	23769425	2	BLOCK, TERMINAL END SECTION, 3-LEVEL	29	96751722	43	SCREW, TAPPING HEX WASHER HEAD M4 x 10.00 LONG
11	23769441	2	BLOCK, TERMINAL JUMPER, 3-POLE	30	96767017	4	SCREW, TAPPING HEX WASHER HEAD M4 x 16.00 LONG
12	23769458	2	BLOCK, TERMINAL JUMPER, 5-POLE	31	96767322	2	SCREW, TAPPING HEX WASHER HEAD M6 x 40.00 LONG
13	23896434	1	JUMPER, 5 POLE	32	47564749001	1	PANEL, BACK (FIXED SPEED STAR DELTA)
14	23908130	1	POWER SUPPLY, 24VDC 50W	33	49018922	1	CONTACT, AUX (CAL19-11B)
15	24099079	1	BLOCK, TERMINAL M8-6 POLE				
16	24469710	1	CONTACTOR, AF26, 0 AUX CONT, ABB AF26-30-00-12				
17	24482812	1	STARTER, MANUAL MTR (ABB P/N MS132-6.3)				
18	24482895	1	CONTACT, AUX 1N/O, 1N/C FRONT MOUNT (ABB P/N HFK1-11)				
19	24482903	1	TERMINAL, 3 PHASE FEEDER (ABB P/N S1-M3-25)				

A/R	AS REQUIRED
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49102411 BACKPANEL S/D (AF146/146/116) ASSEMBLY DRAWING

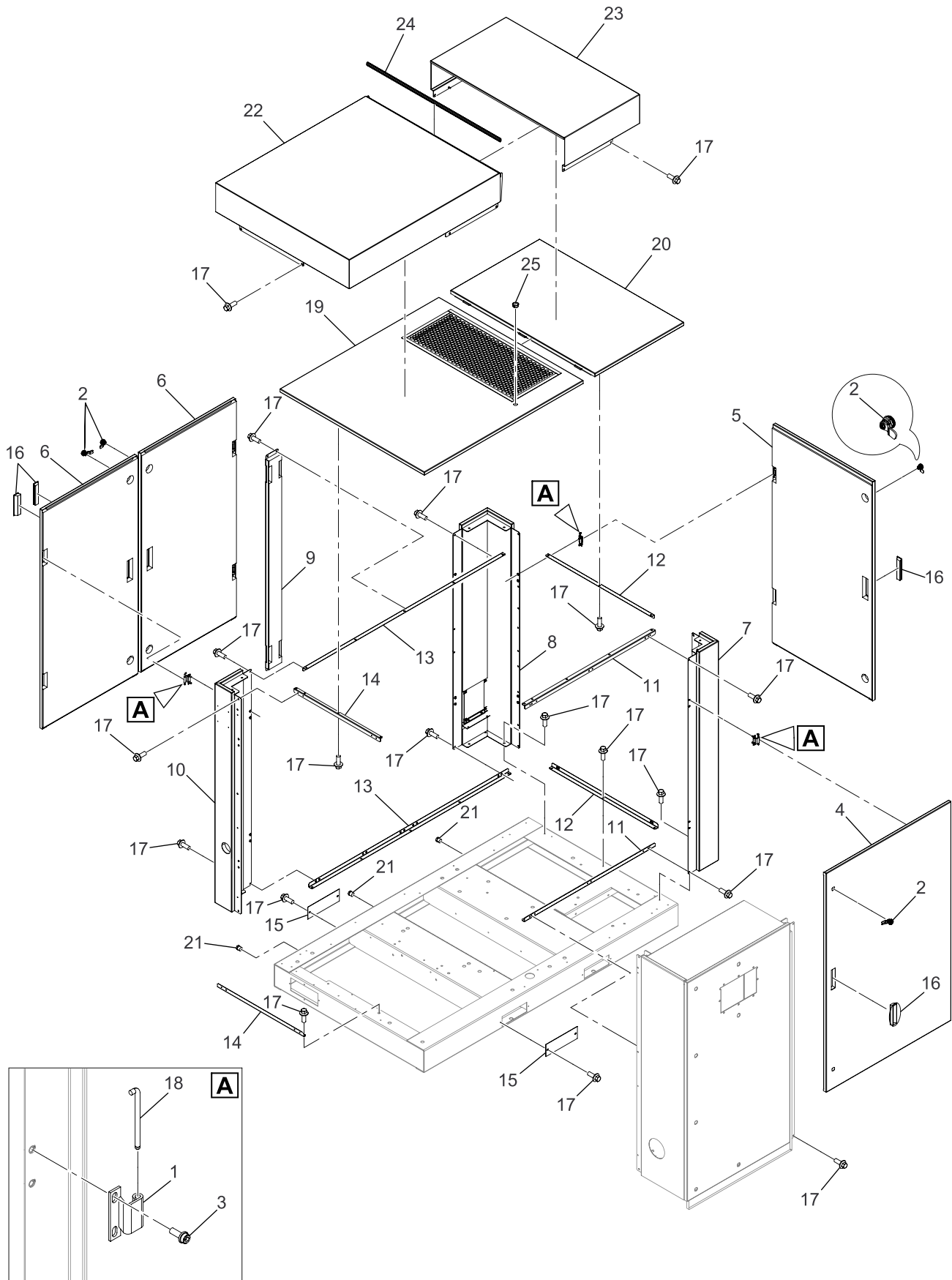


49102411 BACKPANEL S/D (AF146/146/116) PARTS LIST

Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
1	22101208	A/R	DUCT, WIRING, 1 IN. x 3 IN.	21	39203443	1	SUPPRESSOR, ARC
2	22101224	A/R	COVER, WIRING DUCT, 1 IN.	22	39252903	17	BLOCK, TERMINAL
3	22135818	1	BREAKER, CIRCUIT 6A - 1P	23	39252937	6	STOP, DIN RAIL N37-75
4	22477244	1	DECAL, GROUND SYMBOL	24	47549030001	1	PANEL, BACK (FIXED SPEED STAR DELTA)
5	23199557	1	BREAKER, MINI-CIR 3A 2P S202-D3	25	49018914	1	CONTACT, AUX (CAL19-11)
6	23464530	A/R	RAIL, 35 mm DIN	26	49018922	1	CONTACT, AUX (CAL19-11B)
7	23618572	1	TRANSFORMER, CONTROL 350VA	27	49111826	1	INTERLOCK, MECHANICAL (VM19)
8	23769409	8	BLOCK, TERMINAL 3-LEVEL W/ GROUND	28	54612940	3	TERMINAL, END PLATE - ENTRELEC 118 368.16
9	23769425	2	BLOCK, TERMINAL END SECTION, 3-LEVEL	29	54689849	1	BREAKER, CIRCUIT
10	23769441	2	BLOCK, TERMINAL JUMPER, 3-POLE	30	93469633	3	TERMINAL, EARTH M4/6.P
11	23769458	2	BLOCK, TERMINAL JUMPER, 5-POLE	31	96747209	4	SCREW, TAPPING HEX WASHER HEAD M6 x 12.00 LONG
12	23896434	1	JUMPER, 5 POLE	32	96751722	45	SCREW, TAPPING HEX WASHER HEAD M4 x 10.00 LONG
13	23908130	1	POWER SUPPLY, 24VDC 50W	33	96767017	6	SCREW, TAPPING HEX WASHER HEAD M4 x 16.00 LONG
14	24099079	1	BLOCK, TERMINAL M8-6 POLE	34	96767322	2	SCREW, TAPPING HEX WASHER HEAD M6 x 40.00 LONG
15	24469710	1	CONTACTOR, AF26, 0 AUX CONT, ABB AF26-30-00-12	35	24751240	1	RELAY, OVERLOAD EF146-150
16	24482812	1	STARTER, MANUAL MTR (ABB P/N MS132-6.3)	36	24873028	2	CONTACTOR, AF146, 1N/O 1N/C AUX, ABB AF146-30-11-13
17	24482895	1	CONTACT, AUX 1N/O, 1N/C FRONT MOUNT (ABB P/N HFK1-11)				
18	24482903	1	TERMINAL, 3 PHASE FEEDER (ABB P/N S1-M3-25)				
19	24873010	1	CONTACTOR, AF116, 1N/O 1N/C AUX, ABB AF116-30-11-13				
20	24874745	1	KIT, CONNECTION, YD STARTERS (ABB BEY140-4)				

A/R	AS REQUIRED
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ENCLOSURE AND OUTDOOR MODIFICATION ASSEMBLY DRAWING



ENCLOSURE AND OUTDOOR MODIFICATION PARTS LIST

Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
1	22159842	8	HINGE, DOOR PIN	16	39491147	4	HANDLE PULL
2	23180565	8	LATCH, DOOR	17	39917489	85	SCREW, HEX HEAD
3	24718223	16	SCREW, SOCKET FLANGE HEAD	18	93580140	8	HINGE, PIN
4	24822397	1	ASSEMBLY, FRONT DOOR (WITH FOAM)	19	47524454001	1	ASSY, TOP PANEL LEFT WITH FOAM (DRYER)
5	24822405	1	ASSEMBLY, RIGHT DOOR (WITH FOAM)		24822389		ASSY, TOP PANEL LEFT WITH FOAM (WITHOUT DRYER)
6	24822413	2	ASSEMBLY, REAR COMMON DOOR (WITH FOAM)	20	47528722001	1	ASSY, TOP PANEL RIGHT
7	24822439	1	ASSEMBLY, RIGHT FRONT CORNER (WITH FOAM)	21	23510894	3	PLUG
8	24822447	1	ASSEMBLY, RIGHT REAR CORNER (WITH FOAM)		32179020		PLUG (AMERICAN ONLY)
9	24822454	1	ASSEMBLY, CENTER REAR COLUME (WITH FOAM)	22	49112899	1	PANEL, ODM TOP LEFT
10	24822462	1	ASSEMBLY, LEFT REAR CORNER (WITH FOAM)	23	49112907	1	PANEL, ODM TOP RIGHT
11	24841538	2	STOP, FRONT DOOR	24	92789379	A/R	SEAL, EDGE
12	24841546	2	STOP, RIGHT DOOR	25	47540847001	1	PLASTIC PLUG
13	24841553	2	STOP, BACK DOOR	A/R	AS REQUIRED		
14	24841561	2	STOP, LEFT DOOR				
15	39480470	4	COVER, FORKLIFT COVER				

RECOMMENDED PARTS

O-RINGS (MATERIAL: VITON, FKM, OR EQUIVALENT)		
CCN	DESCRIPTION	LOCATION
96759295	O-RING , M12 X 1.5 FLUOROCARBON	TEMPERATURE SENSORS
95023131	O-RING STANDARD -159 4.987 ID X 0.103 WIDTH	INLET VALVE TO AIREND
95070272	O-RING 2 X 2-1/8 X 1/16	MOTOR SHAFT SLEEVE
95023107	O-RING 4-1/4 X 4-7/16 X 11749	MOTOR SHAFT SEAL HOUSING
95987970	O-RING STANDARD -225 1.875 ID X .125 WIDTH	* AFTERCOOLER DISCHARGE FLANGE * MPCV TO AFTERCOOLER INLET HOSE * AFTERCOOLER INLET HOSE TO AFTERCOOLER INLET FLANGE
95987988	O-RING STANDARD -228 2.250 ID X .125 WIDTH	MPCV TO SEPARATOR TANK LID
95990776	O-RING, STANDARD, SPECIAL, BOSS TUBE FITTING (INCH)	AIREND TO GEARCASE (LARGE)
96961875	O-RING, STANDARD	AIREND TO GEARCASE (SMALL)
95987236	O-RING, STANDARD	AIREND DISCHARGE TO DISCHARGE ELBOW
96957360	O-RING ID 2.75 .12W DN 64-61/62 20A11E2M232)	* AIREND DISCHARGE TUBE (BOTH ENDS) * THERMAL VALVE TO SEPARATOR TANK
95985842	O-RING FOR 3/4 ORFS (20A11E2M018)	THERMAL VALVE PORT B
96959895	O-RING, STANDARD	THERMAL VALVE INTEGRATED CHECK VALVE PLUG
95951455	O-RING	THERMAL VALVE WAX ACTUATOR
49216500	O-RING, CLAMP KIT FA150I-FA490I	REPLACEMENT FOR CLAMP KIT 24361933

CONSUMABLES	
CCN	DESCRIPTION
24242273	ELEMENT, DRYER HE FILTER
49101645	FILTER, AIR (STANDARD)
49164395	FILTER, AIR (HIGH DUST)
24900433	ELEMENT, COOLANT SPIN-ON
23909229	FILTER, PANEL AIR (HIGH DUST)
23924269	FILTER, PANEL AIR (DRYER, HIGH DUST)
23675010	ELEMENT, SEPARATOR TANK
47524186001	ELEMENT, PACKAGE COOLING PRE-FILTER
47524431001	ELEMENT, AIREND INTAKE PRE-FILTER
23835515	ELEMENT, PRE-FILTER (DRYER)

50HZ GEAR SETS		
CCN	DESCRIPTION	COMMENT
48864995	ASSY, GEARSET RATIO 1.805	RS30IE 7.5BARG
24904872	ASSY, GEARSET RATIO 1.674	RS30IE 8.5BARG
24905895	ASSY, GEARSET RATIO 2.194	RS37IE 7.5BARG
24698524	ASSY, GEARSET RATIO 2.026	RS37IE 8.5BARG
47569097001	ASSY, GEARSET RATIO 0.769	RS30IE 10BARG
47569098001	ASSY, GEARSET RATIO 0.643	RS30IE 14BARG
47569100001	ASSY, GEARSET RATIO 0.917	RS37IE 10BARG
47569916001	ASSY, GEARSET RATIO 0.797	RS37IE 14BARG

RECOMMENDED PARTS

60HZ GEAR SETS		
CCN	DESCRIPTION	COMMENT
24900748	ASSY, GEARSET RATIO 1.500	RS30IE 110PSIG
24900714	ASSY, GEARSET RATIO 1.396	RS30IE 125PSIG
48864995	ASSY, GEARSET RATIO 1.805	RS37IE 110PSIG
24900706	ASSY, GEARSET RATIO 1.738	RS37IE 125PSIG
47569098001	ASSY, GEARSET RATIO 0.643	RS30IE 145PSIG
47569096001	ASSY, GEARSET RATIO 0.533	RS30IE 200PSIG
47569916001	ASSY, GEARSET RATIO 0.797	RS37IE 145PSIG
47570870001	ASSY, GEARSET RATIO 0.667	RS37IE 200PSIG

COOLANT CHECK	
CCN	DESCRIPTION
38035531	KIT, COOLANT SAMPLE CHECK - NORTH AMERICA, SOUTH AMERICA, INDIA
88176367	KIT, COOLANT SAMPLE CHECK - EUROPE, MIDDLE EAST AND AFRICA
91002550	KIT, COOLANT SAMPLE CHECK - ASIA PACIFIC
15478415	KIT, COOLANT SAMPLE CHECK - CHINA / SIRC

COOLANTS			
Container Size	Ultra Coolant	Ultra EL	Ultra FG
1 L	92837095	24161119	-----
5 L	92692284	24061608	23973969
15 L	-----	24061624	-----
20 L	38459582	-----	23973977
208 L	39433743	24061640	23973985

RECOMMENDED PARTS

VALVES	
CCN	DESCRIPTION
47538566001	VALVE, INLET HAKG80 ON/OFF FIXED SPEED
47538567001	VALVE, INLET HPKG80 MODULATION
47522568001	VALVE, INLET HPK65 ON/OFF FS
47522567001	VALVE, INLET HPK65 MODULATION
23388135	VALVE, MINIMUM PRESSURE CHECK
47536005001	VALVE, IN-LINE CHECK
23828882	VALVE, CHECK 0.25 INCH BSPP MALE X 6MM TUBE
23709942	VALVE, ORIFICE/ CHECK (1.04MM / 0.041IN)
24096901	VALVE, DRAIN M22X1.5
24096984	HOSE DRAIN ASSEMBLY (FOR USE WITH DRAIN VALVE 24096901)
23434830	VALVE, SOLENOID DRAIN 1/2"BSPP IN 1/4" NPT OUT
23588940	VALVE, SOLENOID DRAIN .50 BSPP IN, .25 NPT OUT
23434848	VALVE, NO-LOSS DRAIN
47533620001	ASSEMBLY, THERMAL VALVE 2.5" 170-190 DEG F
47521400001	ASSEMBLY, THERMAL VALVE 2.5" 180-195 DEG F
47521436001	ASSEMBLY, THERMAL VALVE 2.5" 185-203 DEG F
23443773	VALVE, PRESSURE RELIEF 16 BAR ASME/CRN
23443765	VALVE, PRESSURE RELIEF 16 BAR CE
23443807	VALVE, PRESSURE RELIEF 8.5 BAR GB
23443815	VALVE, PRESSURE RELIEF 9.5 BAR GB
23443823	VALVE, PRESSURE RELIEF 11 BAR GB
23443831	VALVE, PRESSURE RELIEF 15.4 BAR GB
23443799	VALVE, PRESSURE RELIEF 16 BAR GB

DRYERS	
CCN	DESCRIPTION
24903387	DRYER, INTEGRATED RS30-37IE R134A 460V/3/60HZ
49069552001	DRYER, INTEGRATED RS30-37IE R134A 230V/3/60HZ
24903379	DRYER, INTEGRATED RS30-37IE R134A 400V/3/50HZ
49069545	DRYER, INTEGRATED RS30-37IE R134A 380V/3/60HZ

DRYER BYPASS TUBE	
CCN	DESCRIPTION
47541664001	TUBE, DISCHARGE DRYER BYPASS RS30-37IE

6MM COMPRESSION INSERTS	
CCN	DESCRIPTION
22770069	INSERT, 6MM PLASTIC TUBE

GENERAL ARRANGEMENT	
CCN	DESCRIPTION
47520107001	GENERAL ARRANGEMENT, RS30-37IE

RECOMMENDED PARTS

ELECTRICAL SCHEMATIC	
CCN	DESCRIPTION
49107048	SCHEMATIC, ELECTRICAL WIRING (FS-SD) ARES

P&ID	
CCN	DESCRIPTION
47531031001	DIAGRAM, P&ID RS30-37IE (FSD)

SENSORS		
CCN	DESCRIPTION	LOCATION
23522246	SENSOR TEMPERATURE THERMISTOR	PACKAGE DISCHARGE MANIFOLD
23522253	SENSOR TEMPERATURE THERMISTOR	AIREND DISCHARGE
49147127	TRANSDUCER PRESSURE 225 PSI 5 VDC	STARTER BOX SENSOR MOUNT BRACKET (3APT, 4APT, 5CPT, 6CPT, 7APT)
49147135	TRANSDUCER VACUUM 0-15 PSIG	STARTER BOX SENSOR MOUNT BRACKET (1AVPT)
39875570	CABLE, TRANSDUCER	FOR USE WITH 49147127 AND 49147135

EMERGENCY STOP SWITCH	
CCN	DESCRIPTION
23990716	STOP, EMERGENCY

MAINTENANCE KITS	
CCN	DESCRIPTION
49165061	KIT, RS30-37IE FS MAINTENANCE STD AIR FILTER (6MO/4K)
49165079	KIT, RS30-37IE FS MAINTENANCE STD AIR FILTER W/ DRYER (6MO/4K)
49165087	KIT, RS30-37IE FS MAINTENANCE STD AIR FILTER (1YR/6K/8K)
49165095	KIT, RS30-37IE FS MAINTENANCE STD AIR FILTER W/ DRYER (1YR/6K/8K)
49181654	KIT, RS30-37IE FS MAINTENANCE HIGH DUST AIR & PRE-FILTER (6MO/4K)
49181670	KIT, RS30-37IE FS MAINTENANCE HIGH DUST AIR & PRE-FILTER W/ DRYER (6MO/4K)
49181688	KIT, RS30-37IE FS MAINTENANCE HIGH DUST AIR & PRE-FILTER (1YR/6K/8K)
49181696	KIT, RS30-37IE FS MAINTENANCE HIGH DUST AIR & PRE-FILTER W/DRYER (1YR/6K/8K)

RECOMMENDED PARTS

SERVICE KITS	
CCN	DESCRIPTION
49165020	KIT, SERVICE HOSES RS30-37IE
49165038	KIT, SERVICE HSTCV 51MM-M27 170-190 DEG
24107948	KIT, SERVICE HSTCV 51MM-M27 180-198 DEG F
24107989	KIT, SERVICE HSTCV 51MM-M27 185-203 DEG F 24107989
49165046	KIT, MOTOR SHAFT SEAL (DIA 55MM)
38448239	KIT, SERVICE UNIT ENL 5 VARIO, BSP
24176992	KIT, SERVICE MPCV DN 38 OUT & DN 51 IN 24176992
23467244	KIT, SERVICE SOLENOID FOR VVF18ENO & PVVF18ENO (HAKG/HPKG 80, 110, 120 & 140) 23467244
23467251	KIT, SERVICE ACTUATOR CYLINDER (HAKG/HPKG 80, 110, 120 & 140) 23467251
24109365	KIT, SERVICE INLET VALVE HAKG/HPKG/HK 80 (FIXED & VARIABLE SPEED) 24109365
24109381	KIT, SERVICE BLOWDOWN BLOCK VVF12ENO (HAKG/ HPKG 80) 24109381
24109399	KIT, SERVICE INTERVAL 8K HOURS FS ON/OFF (HAKG 80) & VS (HK80) 24109399
24109407	KIT, SERVICE INTERVAL 8K HOURS FS MODULATION (HPKG 80) 24109407
24109423	KIT, SERVICE & FIELD INSTALLATION MODULATION BLOCK PVVF12ENO (HPKG 80) 24109423
24509150	KIT, SERVICE ACTUATOR CYLINDER (HAKG/HPKG 65) 24509150
24509176	KIT, SERVICE CHECK VALVE (HAKG65/HPKG65/HK65) 24509176
24672115	KIT, SERVICE INTERVAL 8K HOURS FS ON/OFF (HAKG 65) 24672115
24672123	KIT, SERVICE INTERVAL 8K HOURS FS MODULATION (HPKG 65) 24672123
24732604	KIT, SERVICE CHECK VALVE & BALL JOINT(HAKG65/ HPKG65) 24732604

FIELD KITS	
CCN	DESCRIPTION
49181647	KIT, OUTDOOR MOD
49165053	KIT , PORO FIELD RS SERIES
49165673	KIT, FIELD INSTALLATION MODULATION BLOCK (HPKG 65,80) - RS30-37ie
47546980001	KIT, FIELD RS30-37IE HIGH DUST PACKAGE PRE-FILTER (NO DRYER)
47546981001	KIT, FIELD RS30-37IE HIGH DUST PACKAGE PRE-FILTER (W/ DRYER)
47546982001	KIT, FIELD RS37IE HIGH DUST AIR INLET FILTER
47550376001	KIT, FIELD RS30IE HIGH DUST AIR INLET FILTER
47546983001	KIT, FIELD RS30-37IE DRYER BYPASS



