

VARIABLE FREQUENCY DRIVE BOM

ALL INTERNAL WIRING TO BE DONE AS:

1. CONTROL WIRES: 34K1619 - TYPE 'B MIL-W-16878 HOOK UP WIRE', AWG#16, 19 CONDUCTORS STRAND, 600VAC, PVC COATED, -54 TO 150°C; INTERNAL PANEL WIRING; THE MANUFACTURER CAN CHANGE INTERNAL CONTROL WIRE WITH SPECIFIED BY MANUFACTURED WITH EQUIVALENT TECHNICAL SPECIFICATION;
2. WIRING TO BE COLOUR CODED: 120VAC NEUTRAL 'WHITE', 120VAC LINE (HOT) 'BLACK'; DC CIRCUITS 'RED' or 'BLUE'
3. GROUND WIRES INTERNAL LANDED (INTO VFD ENCLOSURE) TO BE: AWG#10, COPPER; STRANDED; SINGLE WIRE; PVC COATED GREEN COLOUR, OR BARE; BY MANUFACTURER SPECIFICATION;
4. ALL WIRES TO BE FINISHED WITH WIRE FERROWS WITH RESPECT TO CABLE & TERMINAL SIZES;
5. WIRES CONNECTED TO THE SCREWS TO BE FINISHED WITH 'O' RING TONGUE FERROWS WITH RESPECT TO THE WIRE AND SCREW SIZE;
6. ALL POWER TEMINAL BLOCKS TO BE SPECIFIED BY MANUFACTURERE AND TO BE ABLE TO ADDOPT WIRE SIZES UP TO AWG #8

DWG No	SH No	POS No	NAME	CAT. No BY MANUFACTURER CATALOGUE STANDARDS APPROVED	DESCRIPTION	MATERIAL	SIZES WXX(MM) HXX(MM) DXX(MM)	Q'ty	NOTE
0001-0002	2	16							
0001-0002	2	15	SURGE SUPPRESSORS		2x - 700-AV3R 110- 240VAC 2x - 700-ADLR 6-24VDC ROCKWELL AUTOMATION SPECIFICATION			2 DC 2 AC	
0001-0002	2	14	INTERPOSING RELAYS 24VDC COIL 120VAC CONTACTS 5A SET WITH BASE;	ALB700HC14Z24; BASE BY ROCKWELL AUTOMATION SPECIFICATION	24VDC COIL; 4PDT CONTACTS 120VAC/5A; BASE; ROCKWELL AUTOMATION-MANUFC. SPEC.	MANUFC. SPEC.	MANUFC. SPEC.	2 RL; 2 BAS	FINAL SPECIFICATION BY MANUFACTURER
0001-0002	2	13	CONTROL TERMINAL BLOCKS; DIN RAIL; END BARRIERS; END ANCHORS;	1492-HM1GL; 1492-NM36; 1492-N23; DIN-RAIL;	1492-HM1GL FINGER SAFE TRMINAL BLOCK + 1492NM36 END BARRIER + 1493-N23 END ANCHORS	MANUFAC. SPEC.	MANUFAC. SPEC.	2x10; 4; 4	MANUFA-CTURER FINAL SPECIFICATION
0001-0002	2	12	INTERPOSING RELAYS 120VAC COIL 24VDC CONTACTS 5A SET WITH BASE	ALB700HC14A1; BASE BY ROCKWELL AUTOMATION SPECIFICATION	120VAC COIL; 4PDT CONTACTS 120VAC/5A; BASE BY ROCKWELL AUTOMATION-MANUFC. SPEC.	MANUFC. SPEC.	MANUFC. SPEC.	2 RL; 2 BAS	FINAL SPECIFICATION BY MANUFA-CTURER
0001-0002	2	11	3% LINE REACTORS TO BE INSTALED ON INCOMING AND OUTGOING POWER LINES	1321-3R12B Buletin 1321-3R ROCKWELL AUTOMATION	BY ROCKWELL AUTOMATION-MANUFC. SPEC.	MANUFC. SPEC.	W=6.0' H=5.0' D=3.0'	2	FINAL SPECIFICATION BY MANUFA-CTURER
0001-0002	2	10	FUSES FUSE BASE	FUSES FERRAZ-SHAWMUT 3x - ATR25 CSA C 22.2 No106.5 FUSE BASE 3x - 1492-FB3C30 CSA C22.2 No39 1x - DIN 199-DR1	FUSES - FES25 25A/600V/60Hz/Class C FERRAZ SHAWMUT FUSE BASE - AB 30A/600V/60Hz/FRONT INSTALLATION DIN RILL	FERRAZZ SHAWMUT and GEC ALSTHOM SPEC.	FERRAZZ SHAWMUT and GEC ALSTHOM SPEC.	2x3	FINAL SPECIFICATION BY MANUFA-CTURER
0001-0002	2	9	POWER TERMINALS	3x - 1492-HM3BL 1x - 1492-HM3G 2x - 1492-N23	TO ADDOPT UP TO 8 AWG; TERMINATE POWER INCOMING AND OUTGOING SUPPLY CABLES	MANUFAC. SPEC.	MANUFAC. SPEC.	2x5	For Incoming Cable LABELED 'G', 'R', 'S', 'T', For Outgoing Cable LABELED 'G', 'U', 'V', 'W'
0001-0002	2	8	POWERFLEX 40 VFD; FRAME C;	22B-E012N104 CSA C 22.2 No14	VARIABLE FREQUENCY DRIVE; POWERFLEX 40 575 V; 10 Hp;	MANUFAC. SPEC.	W=5.1' H=7.1' D=12.6'	1	
0001-0002	2	7	GROUND BUS BAR	601748-29B 2x-X-397462	CONNECT ALL GROUND BOND CONDUCTORS	GALVANIZED COPPER	SIZED BY MANUFACTUR.	1	
0001-0002	2	1	ENCLOSURE Ralston Metal Products Limited GUELPH, ONTARIO, KCLASS NEMA/EEMAC12	N12-352412 CSA certified (File # LR 23608); UL 508 approved	N12 SERIES NEMA/EEMAC TYPE 12 Dll and Dust Tight Single Door Enclosure. 14 ga. hot rolled steel phosphatized and finished inside and out with ANST/ASA 61 grey polyester powder coating.	14 ga. hot rolled steel phosphatized	W=24' H=36' D=12"	1	FINAL SPECIFICATION BY MANUFA-CTURER

ENGINEERING UNITS: INCHES	SCALING: NO SCALING (FREE SIZES)
VFD BILL OF MATERIALS Page 2 - Description	
DRAWING No 00001-00003	
REV 00	
Alexandar Iotzov Consultant	VFD BILL OF MATERIALS Page 2 - Description
SHEET 3 of 5	