



Product Information Packet

EM31114-58

110KW,1485RPM,3PH,50HZ,D315M,18112M,TEFC

Part Detail							
Revision:	E	Status:	INA/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	18WGY193	CD Diagram:	CD0382	Mfg Plant:	
Mech. Spec:	18T413	Layout:	18LYT413	Poles:	04	Created Date:	10-17-2006
Base:	RG	Eff. Date:	07-12-2011	Leads:	6#2		

Specs			
Catalog Number:	EM31114-58	Inverter Code:	Not Inverter
Enclosure:	TEFC	KVA Code:	H
Frame:	D315M	Lifting Lugs:	Standard Lifting Lugs
Frame Material:	Iron	Locked Bearing Indicator:	Locked Bearing
Output @ Frequency:	110.000 KW @ 50 HZ	Motor Lead Quantity/Wire Size:	6 @ 2 AWG
Synchronous Speed @ Frequency:	1500 RPM @ 50 HZ	Motor Lead Exit:	Ko Box W/Term Block
Voltage @ Frequency:	380.0 V @ 50 HZ	Motor Lead Termination:	Terminal Block
	415.0 V @ 50 HZ	Motor Type:	18112M
Agency Approvals:	UR	Mounting Arrangement:	B3
	CSA	Power Factor:	86
	CE	Product Family:	General Purpose
Auxillary Box:	No Auxillary Box	Pulley End Bearing Type:	Ball
Auxillary Box Lead Termination:	None	Pulley Face Code:	Standard
Base Indicator:	Rigid	Pulley Shaft Indicator:	Standard
Bearing Grease Type:	Polyrex EM (-20F +300F)	Rodent Screen:	None
Blower:	None	RoHS Status:	ROHS COMPLIANT
Current @ Voltage:	188.000 A @ 415.0 V	Shaft Extension Location:	Pulley End
	201.000 A @ 380.0 V	Shaft Ground Indicator:	No Shaft Grounding

Design Code:	N	Shaft Rotation:	Reversible
Drip Cover:	No Drip Cover	Shaft Slinger Indicator:	Shaft Slinger
Duty Rating:	CONT	Speed Code:	Single Speed
Electrically Isolated Bearing:	Not Electrically Isolated	Motor Standards:	IEC
Feedback Device:	NO FEEDBACK	Starting Method:	Wye Start - Delta Run
Frame Prefix:	D	Thermal Device - Bearing:	None
Front Face Code:	Standard	Thermal Device - Winding:	Thermistor
Front Shaft Indicator:	None	Vibration Sensor Indicator:	No Vibration Sensor
Heater Indicator:	No Heater	Winding Thermal 1:	None
Insulation Class:	F	Winding Thermal 2:	None

Nameplate NP1955L

CAT NO											
SPEC.	18T413Y193G2										
SER.NO											
FRAME	D315M			MTG	B3			I.P.	55		
ENCL	TEFC		WEIGHT	1859		CL	F				
DE BRG	6319			ODE	6314						
RATING	40C AMB-CONT										
BLANK											
R/MIN	1485			RPM	1785						
KW	110			VOLTS DELTA	400			HP	148		
DESIGN	N	A 201-188			P.F.	86			A	168	
	380-415			EFF.	96.5						
EFF.	96.2			DESIGN	B		CODE	H			
COS	0.86			SER. F.	1.00			CC	010A		

Parts List		
Part Number	Description	Quantity
SA150326	SA 18T413Y193G2	1.000 EA
RA139215	RA 18T413Y193G2	1.000 EA
18FN3000C04	17.5 FAN 2.375 BORE PLASTIC ASSEMBLED	1.000 EA
S/P107-000-004	SUPER-E(284 FR. & UP)-CL PLANT,POLYREX E	1.000 EA
HA9841A	STATOR FRAME IEC ADAPTER PLATE, METRIC	1.000 EA
HA9841B	STATOR FRAME IEC ADAPTER PLATE, METRIC	1.000 EA
10YN0200K065	M20-1.5 X 65MM HEX HD SCR, GRADE 5	4.000 EA
HW1021A20	WASHER,SPLIT LOCK,STEEL,ZINC 20MM	4.000 EA
18CB1007A08	KBOX, MACH W/(4) M63 X 1.5 TAP LEAD HL	1.000 EA
18GS1007A01	GASKET, CONDUIT BOX X	1.000 EA
10YN0100K030	BOLT,M10 X 1.5 X 30MM HHCS YZ, DIN 933	4.000 EA
HW1021A10	WASHER DIAMETER = M10, SPRING STEEL,	4.000 EA
WD5005A07	TERM BLK KIT W/WD1320A03 ELEC AMPS 63-16	1.000 EA
HA6593A06	ADAPTER-WECO TERMINAL BRD, METRIC-E	1.000 EA
WD1201A01	TERM. STRIP KL 16/12/PA DS ELECTROVERT	1.000 EA
84YN0030J012	SCREW SOCKET HD M3 X 12MM LG	2.000 EA
HA6357A03	CONNECTOR MTG. BRACKET, VECTOR DRIVES	1.000 EA
19YW0040A012	SCREW, TAPTITE, ZN, M4 X 12MM LONG,	2.000 EA
HW1001A08	WASHER, #8 SPLT LK, ZN	2.000 EA
WD1000B25	GND LUG, BURNDY L125HP OR T&B L125HP-BB	1.000 EA
10YN0080K013	8MM X 13MM,HX HD CAP SCR,GRADE 5	1.000 EA
HW1021A08	WASHER DIAMETER = M8, SPRING STEEL,	1.000 EA
18EP1103A165	FREP TEFC 447-9T 318 6314 BRG NON-X	1.000 EA
10YN0140K070	BOLT M14-1.50 X 70MM HHCS	4.000 EA

Parts List (continued)		
Part Number	Description	Quantity
HW5100A17	WVY WASHER W5817-055	1.000 EA
10YN0100K075	BOLT, M10X1.5X75MM HHCS GRADE 5	4.000 EA
18EP1104A65	PUEP TEFC 447-9T CP 6319 BRG METRIC-E	1.000 EA
10YN0140K070	BOLT M14-1.50 X 70MM HHCS	4.000 EA
HW4600B45	V-RING SLINGER 3.5 X 4.370 X 0.350	1.000 EA
10YN0100K110	BOLT, M10 X 1.5 X 110MM HHCS GRADE 5	4.000 EA
18FH1002A42	STD FAN HSG (BLOWER MTG.) W/M8-1 TAP	1.000 EA
10YN0140K200	BOLT M14-1.50 X 200MM HHCS, GRADE 5	4.000 EA
HW1021A14	WASHER, M14 SPLIT-LOCK YZ	1.000 EA
HA6335A01	STD GRILLE 318 USE W/FANCOVER 18FH1002	1.000 EA
10YN0080K025	BOLT, M8 X 1.25 X 25MM HHCS YZ	3.000 EA
HW1021A08	WASHER DIAMETER = M8, SPRING STEEL,	3.000 EA
187X0033	HOLE PLUG, NEOPRENE AC GRILL 50 DURO.	1.000 EA
18CB1507A01	CONDUIT BOX LID, MACH	1.000 EA
18GS1015	CONDUIT BOX LID GASKET FOR 18CB1007	1.000 EA
10YN0080K025	BOLT, M8 X 1.25 X 25MM HHCS YZ	6.000 EA
HW1021A08	WASHER DIAMETER = M8, SPRING STEEL,	6.000 EA
HW2511H140	22MM X 14MM X 140MM LNG KEY W/ROUND ENDS	1.000 EA
MJ5001A01	46-665 RED SEALER	0.031 QT
MJ5001A14	DYNAPRO SEALANT, CP MTR VC#2508050 (603	0.041 EA
LB1182	WARNING LABEL FOR MOTORS WITH EYENUTS	2.000 EA
LB1115N	LABEL,LIFTING DEVICE (ON ROLLS)	1.000 EA
LB5040	INSTRUCT TAG, REPL W/MN416 OR MN416A01	1.000 EA
WD1000B33	T&B G973 RING TERMINAL 2AWG 3/8" STUD	6.000 EA

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HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
HW4500A21	1618BALEMITE FITTING 825 UNIVERSAL	1.000 EA
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 EA
HA4001A01SP	DRAIN PLUG, PLASTIC (MICRO PLAS)	1.000 EA
MJ1000A02	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.400 LB
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 EA
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 EA
HA4001A01SP	DRAIN PLUG, PLASTIC (MICRO PLAS)	1.000 EA
HW2500A25	WOODRUFF KEY USA #1008 #BLOW CARBON STEE	1.000 EA
MG1025G05	WILKOFAS, 789.227, MED. GRAY CHAR. MET.	0.150 GA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 EA
LB1119N	WARNING LABEL	1.000 EA
LB1125C02	SUPER-E (STOCK CTN LABEL SUPER-E WITH FL	4.000 EA
LB1357	ENERGY GUIDE LABEL (BOX LABEL)	1.000 SH
LC0762	CONN LABEL, AC	1.000 EA
NP1955L	ALUM SUPER-E CSA-EEV PREM CC	1.000 EA
18PA1002	PACKAGING GROUP (318 FRM)TDR 10923	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 5/18	1.000 EA
LB1417	LABEL CARTON 6X4 PERFORATED BLANK ROLLS	1.000 EA

AC Induction Motor Performance Data

Record # 22710 - Typical performance - not guaranteed values

Winding: 18WGY193-R005	Type: 18112M	Enclosure: TEFC
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Nameplate Data				415 V, 50 Hz: Single Voltage Motor	
Rated Output (KW)	110			Full Load Torque	521 LB-FT
Volts	380-415			Start Configuration	direct on line
Full Load Amps	201-188			Breakdown Torque	1856 LB-FT
R.P.M.	1485			Pull-up Torque	852 LB-FT
Hz	50	Phase	3	Locked-rotor Torque	1018 LB-FT
NEMA Design Code	N	KVA Code	H	Starting Current	1375 A
Service Factor (S.F.)	1			No-load Current	59.7 A
NEMA Nom. Eff.	95.4	Power Factor	86	Line-line Res. @ 25°C	0.0203 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	66°C
				Locked-rotor Power Factor	21
				Rotor inertia	53.8 LB-FT ²

Load Characteristics 415 V, 50 Hz, 110 KW

% of Rated Load	25	50	75	100	125	150
Power Factor	51	73	82	85	87	87
Efficiency	91.6	95.2	95.8	96	95.7	95.5
Speed	1497	1494	1492	1489	1486	1484
Line amperes	82.4	111	147	189	230	276

Performance Graph at 415V, 50Hz, 110.0KW Typical performance - Not guaranteed values





