



Customer information packet

EM4104T-58

30HP, 1470RPM, 3PH, 50HZ, 286T, 1064M, TEFC, F1

ELECTRIC MOTOR WHOLESale.COM

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	286T
Frame Material	Iron
Frequency	50.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	30.000 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	1500 RPM @ 50 HZ
Voltage @ Frequency	400.0 V @ 50 HZ
XP Class and Group	None
XP Division	Not Applicable
Agency Approvals	CE CSA CURUS IE3 UKCA UR WEEE
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	43.000 A @ 400.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard

Part detail

Revision	L
Type	AC
Mech. spec.	10C151
Base	
Status	PRD/A
Elec. spec.	10WGZ706
Layout	10LYC151
Eff. date	07-19-2023
CD Diagram	CD0382
Poles	04
Leads	6#8
Proprietary	False
Created date	11-10-2017

Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	43.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	6 @ 8 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1064M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	27.76 IN
Power Factor	81
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	1.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1470 rpm
Speed Code	Single Speed
Starting Method	Wye Start - Delta Run
Thermal Device - Bearing	None
Thermal Device - Winding	None

Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP3444L									
CAT NO	EM4104T-58								
SPEC.	10C151Z706G1								
HP	30/22KW						PH	3	
VOLTS	400								
AMP	43 245 KG								
RPM	1470 1/MIN IC411								
FRAME	286T		HZ	50		I.P.	44		
SER.F.	1.15	CODE	H	DES	A	CL	F		
NOM.EFF.	93								
PF	81	USABLE AT 208V					N/A		
RATING	40C AMB-CONT				CC				
DE BRG	6311		ODE	6309					
ENCL	TEFC	SN							
VPWM INVERTER READY									
CT5-50(10:1)VT2.5-50(20:1									
BLANK	IE3-93.6(75)92.8(50%)								

Parts list

Part number	Description	Quantity
SA347618	SA 10C151Z706G1	1.000 ea
RA336176	RA 10C151Z706G1	1.000 ea
09FN3001C02	EXTERNAL FAN, PLASTIC (COMES W/SCREW FRO	1.000 ea
10CB3000SP	KOBX, CAST W/2.00 LEAD HOLE	1.000 ea
09GS1000	GASKET-CONDUIT BOX, 1/16 THICK LEXIDE	1.000 ea
10XN3118K12	5/16-18 X .75 GRADE 5, ZINC PLATED	4.000 ea
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	4.000 ea
WD1000B25	GND LUG, BURNDY L125HP OR T&B L125HP-BB	1.000 ea
19XW3118G08	.31-18X.50,HEX WSHR HD,TAPTITE 2,GREEN	1.000 ea
10EP1106A01	FR ENDPLATE, MACH	1.000 ea
10XN3816K32	BOLT, 3/8-16X2 HH YZ(5)	4.000 ea
HA4017A01	1/8 X 4 GREASE EXT (F/S)	1.000 ea
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 ea
HW5100A11	W3917-042 WVY WSHR (WB)	1.000 ea
10XN2520K36	1/4-20 X 2.00 HX HD SCR W GRADE 5, ZINC P	2.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	2.000 ea
10XN3118K40	5/16-18 X 2.50" HEX HD, GRADE 5	4.000 ea
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	4.000 ea
10EP1105A01	PU ENDPLATE	1.000 ea
10XN3816K28	3/8-16 X 1.75 HEX HD CAP SCREW, GRADE 5	4.000 ea
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 ea
10FH4000	310 FAN HOUSING STAMPED	1.000 ea
51XF2520A08	SCREW, HEX SER SLT HD, ZN 1/4-20 X .50 L	4.000 ea
10CB3500SP	CONDUIT BOX LID, CAST	1.000 ea
10GS1000SP	GASKET, CONDUIT BOX LID	1.000 ea
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	4.000 ea
HW4600B40	V-RING SLINGER 2.000 X 2.680 X .28 VITON	1.000 ea
HW2501H28	KEY, 1/2 SQ X 3.250	1.000 ea
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

HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.130 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
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 ea
HW2500A25	WOODRUFF KEY USA #1008 #BLOW CARBON STEE	1.000 ea
MG1050Y01	CELEROL BALDOR GOLD	0.125 ga
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
LC0382	CONNECTION LABEL	1.000 ea
NP3444L	ALUM SUPER-E VPWM INV READY NEMA IE3 UL	1.000 ea
10PA1000	PACKAGING GROUP COMBINED PRINT PK1023A06	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2100bx)4/22	1.000 ea
FE-0000022	ZRTG FE ASSEMBLY	1.000 ea
LB1594	MYLAR WEEE WHEELIE BIN SYMBOL FOR CE MOT	1.000 ea
PE-0000013	ZRTG PE ASSEMBLY	1.000 ea
LB1617	UKCA COMPLIANCE STICKER	1.000 ea

AC Induction Motor Performance Data

Record # 68540

Typical performance - not guaranteed values

Winding: 10WGZ706-R001				Type: 1064M		Enclosure: TEFC	
Nameplate Data				400 V, 50 Hz: Single Voltage Motor			
Rated Output (HP)		30		Full Load Torque		107.2 LB-FT	
Volts		400		Start Configuration		direct on line	
Full Load Amps		43		Breakdown Torque		349 LB-FT	
R.P.M.		1470		Pull-up Torque		154 LB-FT	
Hz	50	Phase	3	Locked-rotor Torque		180 LB-FT	
NEMA Design Code		A	KVA Code	H	Starting Current		292 A
Service Factor (S.F.)		1.15		No-load Current		19.1 A	
NEMA Nom. Eff.		93	Power Factor	81	Line-line Res. @ 25°C		0.18648 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		69°C	
S.F. Amps				Temp. Rise @ S.F. Load		78°C	
				Locked-rotor Power Factor		34.7	

Load Characteristics 400 V, 50 Hz, 30 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	42	64	76	81	83	84	82
Efficiency	89	92.8	93.6	93.4	93	92.8	93.2
Speed	1493.1	1487.1	1480.8	1474.1	1469.7	1466.8	1471
Line amperes	21.7	27.1	34.3	42.6	48.2	51.9	46

ABB Motors and Mechanical Inc.

WINDING # 10WGZ706

Typical performance - not guaranteed values.

30 HP 3 PH 50 HZ 1470 RPM 400 V 1064M

TORQUES (LB-FT): PO=349 PU=154 LR=180 LRA=292





