



Customer information packet

EM2515T-CI

20HP, 1765RPM, 3PH, 60HZ, 256T, 0946M, OPEN, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	OPEN
Frame	256T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	20.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA EEV CURUSEEV NEMA PREMIUM NEMA_PREMIUM UR
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	48.000 A @ 230.0 V 49.000 A @ 208.0 V 24.000 A @ 460.0 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

Part detail

Revision	Y
Type	AC
Mech. spec.	09D01
Base	
Status	PRD/A
Elec. spec.	09WGY363
Layout	09LYD001
Eff. date	12-20-2024
CD Diagram	CD0005
Poles	04
Leads	9#12
Proprietary	False
Created date	03-08-2010

Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	24.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0946M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	22.37 IN
Power Factor	84
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1765 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

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

Nameplate

NP3554LUA											
CAT.NO.	EM2515T-CI			P/N						ENCL	OPEN
SPEC.	09D001Y363G2		CC	010A		FRAME	256T		SER.NO.		
HP	20			CLASS	F		HZ	60			
RPM	1765			PH	3		DES	A			
VOLTS	230/460				CODE	H		ODE BRG	6208	DE BRG	6309
AMPS	48/24										
RATING	40C AMB-CONT			NEMA-NOM-EFF				93	GREASE	POLYREX EM	
PF	84	SER.F.	1.15		CT30-60(2:1) VT3-60(20:1)						
USABLE AT	50HZ 20HP 190/380V 54/27A					SF 1.0					
HTR-VOLTS	HTR-AMPS		MAX. SPACE HEATER TEMP.								

AC Induction Motor Performance Data

Record # 32255

Typical performance - not guaranteed values

Winding: 09WGY363-R003			Type: 0946M		Enclosure: OPEN		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		20	Full Load Torque		60 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		48/24	Breakdown Torque		190 LB-FT		
R.P.M.		1765	Pull-up Torque		100 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		110 LB-FT	
NEMA Design Code		A	KVA Code	H	Starting Current		164 A
Service Factor (S.F.)		1.15		No-load Current		8.5 A	
NEMA Nom. Eff.		93	Power Factor	84	Line-line Res. @ 25°C		0.433 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		46°C	
S.F. Amps				Temp. Rise @ S.F. Load		56°C	
				Locked-rotor Power Factor		33.6	
				Rotor inertia		2.01 LB-FT2	

Load Characteristics 460 V, 60 Hz, 20 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	52	74	83	87	89	89	88
Efficiency	87.4	91.9	92.8	93	92.2	91.4	92.4
Speed	1792	1784	1775	1767	1757	1748	1761
Line amperes	10.2	13.7	18.2	23.1	28.5	34.2	26.2

ABB Motors and Mechanical Inc.

WINDING # 09WGY363

Typical performance - not guaranteed values.

20 HP 3 PH 60 HZ 1765 RPM 460 V 0946M

TORQUES (LB-FT): PO=190 PU=100 LR=110 LRA=164





