

**BALDOR® • RELIANCE** 

**Product Information Packet**

**EM2515T-12**

**20HP, 1765RPM, 3PH, 60HZ, 256T, 3948M, OPSB, F1**

Part Detail							
Revision:	G	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	39WGX980	CD Diagram:	CD0104	Mfg Plant:	
Mech. Spec:	39K57	Layout:	39LYK057	Poles:	04	Created Date:	06-20-2016
Base:	RG	Eff. Date:	10-22-2021	Leads:	12#10		

Specs			
Catalog Number:	EM2515T-12	Heater Indicator:	No Heater
Enclosure:	OPSB	Insulation Class:	F
Frame:	256T	Inverter Code:	Inverter Ready
Frame Material:	Steel	KVA Code:	G
Output @ Frequency:	20.000 HP @ 60 HZ	Lifting Lugs:	Standard Lifting Lugs
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	Locked Bearing Indicator:	No Locked Bearing
Voltage @ Frequency:	460.0 V @ 60 HZ	Motor Lead Quantity/Wire Size:	12 @ 10 AWG
	230.0 V @ 60 HZ	Motor Lead Exit:	Ko Box
XP Class and Group:	None	Motor Lead Termination:	Flying Leads
XP Division:	Not Applicable	Motor Type:	3948M
Agency Approvals:	UR	Mounting Arrangement:	F1
	CSA EEV	Power Factor:	85
	CSA	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	Shaft Extension Location:	Pulley End

<b>Current @ Voltage:</b>	24.000 A @ 460.0 V	<b>Shaft Ground Indicator:</b>	No Shaft Grounding
	48.000 A @ 230.0 V	<b>Shaft Rotation:</b>	Reversible
	52.000 A @ 208.0 V	<b>Shaft Slinger Indicator:</b>	No Slinger
<b>Design Code:</b>	A	<b>Speed Code:</b>	Single Speed
<b>Drip Cover:</b>	No Drip Cover	<b>Motor Standards:</b>	NEMA
<b>Duty Rating:</b>	CONT	<b>Starting Method:</b>	Wye Start - Delta Run
<b>Electrically Isolated Bearing:</b>	Not Electrically Isolated	<b>Thermal Device - Bearing:</b>	None
<b>Feedback Device:</b>	NO FEEDBACK	<b>Thermal Device - Winding:</b>	None
<b>Front Face Code:</b>	Standard	<b>Vibration Sensor Indicator:</b>	No Vibration Sensor
<b>Front Shaft Indicator:</b>	None	<b>Winding Thermal 1:</b>	None
		<b>Winding Thermal 2:</b>	None

Nameplate NP3554LUA											
CAT.NO.	EM2515T-12			P/N				ENCL	OPSB		
SPEC.	39K057X980		CC	010A		FRAME	256T		SER.NO.		
HP	20		CLASS	F		HZ	60				
RPM	1765		PH	3		DES	A				
VOLTS	230/460			CODE	G		ODE BRG	6208		DE BRG	6309
AMPS	48/24			USABLE AT 208V	52						
RATING	40C AMB-CONT			NEMA-NOM-EFF	93		GREASE	POLYREX EM			
PF	85		SER.F.	1.15		CT30-60(2:1)		VT3-60(20:1)			
USABLE AT	50HZ 20HP 190/380V 58/29A				SF 1.0						
HTR-VOLTS			HTR-AMPS			MAX. SPACE HEATER TEMP.					

**AC Induction Motor Performance Data**

Record # 57708

Typical performance - not guaranteed values

Winding: 39WGX980-R001			Type: 3948M			Enclosure: OPSB		
<b>Nameplate Data</b>				<b>460 V, 60 Hz: High Voltage Connection</b>				
Rated Output (HP)	20		Full Load Torque	59.7 LB-FT				
Volts	230/460		Start Configuration	direct on line				
Full Load Amps	48/24		Breakdown Torque	187 LB-FT				
R.P.M.	1765		Pull-up Torque	78.1 LB-FT				
Hz	60 Phase	3	Locked-rotor Torque	112 LB-FT				
NEMA Design Code	A	KVA Code	G	Starting Current	156 A			
Service Factor (S.F.)	1.15		No-load Current	8.83 A				
NEMA Nom. Eff.	93	Power Factor	85	Line-line Res. @ 25°C	0.48438 Ω			
Rating - Duty	40C AMB-CONT		Temp. Rise @ Rated Load	37°C				
S.F. Amps			Temp. Rise @ S.F. Load	46°C				
			Locked-rotor Power Factor	33.3				

**Load Characteristics 460 V, 60 Hz, 20 HP**

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	50	72	81	85	87	87	86
Efficiency	90.2	93.3	93.5	93	92.2	91	92.5
Speed	1792.2	1784.8	1776.1	1767.5	1757.6	1746.3	1762
Line amperes	10.5	14	18.6	23.8	29.4	35.6	27.2

Performance Graph at 460V, 60Hz, 20.0HP Typical performance - Not guaranteed values





