

BALDOR® • RELIANCE

Product Information Packet

EM2555T-4

100HP,1780RPM,3PH,60HZ,404T,4484M,OPSB,F

Part Detail

Revision:	-	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	44WGW390	CD Diagram:	CD0382	Mfg Plant:	
Mech. Spec:	44E192	Layout:	44LYE192	Poles:	04	Created Date:	08-31-2017
Base:	RG	Eff. Date:	09-05-2017	Leads:	6#4		

Specs

Catalog Number:	EM2555T-4	KVA Code:	H
Enclosure:	OPSB	Lifting Lugs:	Standard Lifting Lugs
Frame:	404T	Locked Bearing Indicator:	Locked Bearing
Frame Material:	Steel	Motor Lead Quantity/Wire Size:	6 @ 4 AWG
Output @ Frequency:	100.000 HP @ 60 HZ	Motor Lead Exit:	Ko Box
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	Motor Lead Termination:	Flying Leads
Voltage @ Frequency:	460.0 V @ 60 HZ	Motor Type:	4484M
Agency Approvals:	CSA	Mounting Arrangement:	F1
	CSA EEV	Power Factor:	83
	UR	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
Current @ Voltage:	118.000 A @ 460.0 V	Shaft Ground Indicator:	No Shaft Grounding
Design Code:	A	Shaft Rotation:	Reversible
Drip Cover:	No Drip Cover	Shaft Slinger Indicator:	No Slinger

Duty Rating:	CONT	Speed Code:	Single Speed
Electrically Isolated Bearing:	Not Electrically Isolated	Motor Standards:	NEMA
Feedback Device:	NO FEEDBACK	Starting Method:	Wye Start - Delta Run
Front Face Code:	Standard	Thermal Device - Bearing:	None
Front Shaft Indicator:	None	Thermal Device - Winding:	None
Heater Indicator:	No Heater	Vibration Sensor Indicator:	No Vibration Sensor
Insulation Class:	F	Winding Thermal 1:	None
Inverter Code:	Inverter Ready	Winding Thermal 2:	None

Nameplate NP2138LUA

CAT.NO.	EM2555T-4		P/N			ENCLOSURE	OPSB	
SPEC.	44E192W390G1	CC	010A	FRAME	404T	S/N		
HP	100		CLASS	F	HZ	60		
RPM	1780		PH	3	DES	A		
VOLT	460		KVA-CODE	H		ODE BRG	6312	DE BRG
AMP	118		USABLE AT 208V					
RATING	40C AMB-CONT		GREASE	POLYREX EM				
NEMA-NOM-EFF	95.4	PF	83	SER.F.	1.15			
	50HZ 100HP 380V 139A SF1.0							
HTR-VOLTS		HTR-AMPS		MAX. SPACE HEATER TEMP.				

AC Induction Motor Performance Data

Record # 66623 - Typical performance - not guaranteed values

Winding: 44WGW390-R001	Type: 4484M	Enclosure: OPSB
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Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	100			Full Load Torque	295 LB-FT
Volts	460			Start Configuration	direct on line
Full Load Amps	118			Breakdown Torque	884 LB-FT
R.P.M.	1780			Pull-up Torque	375 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	498 LB-FT
NEMA Design Code	A	KVA Code	H	Starting Current	852 A
Service Factor (S.F.)	1.15			No-load Current	46.4 A
NEMA Nom. Eff.	95.4	Power Factor	83	Line-line Res. @ 25°C	0.045551 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	47°C
S.F. Amps				Temp. Rise @ S.F. Load	57°C
				Locked-rotor Power Factor	25.4
				Rotor inertia	15.9 LB-FT ²

Load Characteristics 460 V, 60 Hz, 100 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	46	70	79	83	85	86	84
Efficiency	92.6	95.3	95.7	95.6	95.2	94.6	95.4
Speed	1794	1789.8	1785.5	1780.7	1775.5	1769.8	1778
Line amperes	54.2	70.6	92.8	118	145	173	134

Performance Graph at 460V, 60Hz, 100.0HP Typical performance - Not guaranteed values





