

BALDOR® • RELIANCE 

Product Information Packet

EGDM4104T

30HP,1760RPM,3PH,60HZ,286TZ,1056M,TEFC,F

Part Detail							
Revision:	M	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	10WGY538	CD Diagram:	CD0180	Mfg Plant:	
Mech. Spec:	10K051	Layout:	10LYK051	Poles:	04	Created Date:	04-27-2015
Base:	RG	Eff. Date:	08-01-2023	Leads:	9#8 72" long		Y

Specs			
Catalog Number:	EGDM4104T	Heater Indicator:	No Heater
Enclosure:	TEFC	Insulation Class:	F
Frame:	286TZ	Inverter Code:	Inverter Ready
Frame Material:	Iron	IP Rating:	NONE
Motor Letter Type:	Three Phase	KVA Code:	J
Output @ Frequency:	30.000 HP @ 60 HZ	Lifting Lugs:	Standard Lifting Lugs
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	Locked Bearing Indicator:	Locked Bearing
Voltage @ Frequency:	460.0 V @ 60 HZ	Motor Lead Quantity/Wire Size:	9 @ 8 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:	1056M
Agency Approvals:	NEMA_PREMIUM	Mounting Arrangement:	F1
	UR	Power Factor:	80
	NEMA PREMIUM	Product Family:	General Purpose
	CSA EEV	Pulley End Bearing Type:	Sealed Bearing
Auxillary Box:	No Auxillary Box	Pulley Face Code:	Standard
Auxillary Box Lead Termination:	None	Pulley Shaft Indicator:	Standard
Base Indicator:	Rigid	Rodent Screen:	None

Bearing Grease Type:	Polyrex EM (-20F +300F)	Shaft Extension Location:	Pulley End
Blower:	None	Shaft Ground Indicator:	No Shaft Grounding
Current @ Voltage:	76.000 A @ 230.0 V	Shaft Rotation:	Reversible
	78.000 A @ 208.0 V	Shaft Slinger Indicator:	Shaft Slinger
	38.000 A @ 460.0 V	Speed Code:	Single Speed
Design Code:	A	Motor Standards:	NEMA
Drip Cover:	No Drip Cover	Starting Method:	Direct on line
Duty Rating:	CONT	Thermal Device - Bearing:	None
Electrically Isolated Bearing:	Not Electrically Isolated	Thermal Device - Winding:	None
Feedback Device:	NO FEEDBACK	Vibration Sensor Indicator:	No Vibration Sensor
Front Face Code:	Standard	Winding Thermal 1:	None
Front Shaft Indicator:	None	Winding Thermal 2:	None

Nameplate NP3126L										
CAT.NO.	EGDM4104T									
SPEC.	10K051Y538G1									
HP	30									
VOLTS	230/460									
AMP	76/38									
RPM	1760									
FRAME	286TZ				HZ	60			PH	3
SER.F.	1.15		CODE	J	DES	A		CL	F	
NEMA-NOM-EFF	93.6		PF	80						
RATING	40C AMB-CONT									
CC	010A				USABLE AT 208V			N/A		
DE	6311			ODE	6309					
ENCL	TEFC		SN							
	SFA 84.8/42.4									

AC Induction Motor Performance Data

Record # 32189

Typical performance - not guaranteed values

Winding: 10WGY538-R004		Type: 1056M	Enclosure: TEFC
Nameplate Data		460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	30	Full Load Torque	88.7 LB-FT
Volts	230/460	Start Configuration	direct on line
Full Load Amps	76/38	Breakdown Torque	330 LB-FT
R.P.M.	1760	Pull-up Torque	142 LB-FT
Hz	60 Phase	Locked-rotor Torque	178 LB-FT
NEMA Design Code	A KVA Code	Starting Current	270 A
Service Factor (S.F.)	1.15	No-load Current	17.9 A
NEMA Nom. Eff.	93.6 Power Factor	Line-line Res. @ 25°C	0.19377 Ω
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	64°C
S.F. Amps		Temp. Rise @ S.F. Load	76°C
		Locked-rotor Power Factor	30.9
		Rotor inertia	4.47 LB-FT ²

Load Characteristics 460 V, 60 Hz, 30 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	41	63	73	80	82	85	81
Efficiency	87.6	92.3	93.5	93.7	93.4	92.9	93.5
Speed	1792.2	1787.6	1782.4	1776.5	1770.3	1762.1	1773
Line amperes	19.8	24.3	30.7	37.6	45.6	55.2	42.4