

ABB BALDOR RELIANCE III

Customer information packet

EGDM2531T

25HP, 1770RPM, 3PH, 60HZ, 284TZ, 4050M, OPSB, F

Specifications

Enclosure	OPSB
Frame	284TZ
Frame Material	Steel
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	25.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	CSA CSA EEV NEMA PREMIUM UR
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	64.000 A @ 208.0 V 60.000 A @ 230.0 V 30.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.6 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	N
Type	AC
Mech. spec.	40E235
Base	
Status	PRD/A
Elec. spec.	40WGX793
Layout	40LYE235
Eff. date	07-21-2026
CD Diagram	CD0005
Poles	04
Leads	9#10 8" from band Y
Proprietary	False
Created date	04-22-2015

High Voltage Full Load Amps	30.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	4050M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	26.06 IN
Power Factor	82
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	Included
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	No Slinger
Speed	1770 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP3126L											
CAT.NO.	EGDM2531T										
SPEC.	40E235X793G1										
HP	25										
VOLTS	230/460										
AMP	60/30										
RPM	1770										
FRAME	284TZ		HZ	60				PH	3		
SER.F.	1.15		CODE	G	DES	A	CL	F			
NEMA-NOM-EFF	93.6		PF	82							
RATING	40C AMB-CONT										
CC	010A										
DE	6311		ODE	6309							
ENCL	OPSB		SN								

AC Induction Motor Performance Data

Record # 41050

Typical performance - not guaranteed values

Winding: 40WGX793-R001				Type: 4050M		Enclosure: OPSB		
Nameplate Data				460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		25		Full Load Torque		74 LB-FT		
Volts		230/460		Start Configuration		direct on line		
Full Load Amps		60/30		Breakdown Torque		216 LB-FT		
R.P.M.		1770		Pull-up Torque		88.8 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		121 LB-FT		
NEMA Design Code		A	KVA Code	Starting Current		190 A		
Service Factor (S.F.)		1.15		No-load Current		12.7 A		
NEMA Nom. Eff.		93.6	Power Factor	82		Line-line Res. @ 25°C		0.298 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		28°C		
S.F. Amps				Temp. Rise @ S.F. Load		34°C		
				Locked-rotor Power Factor		33.4611		
				Rotor inertia		3.96 lb-ft²		

Load Characteristics 460 V, 60 Hz, 25 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	46	68	78	82	84	83	83
Efficiency	89.8	93.2	93.9	94	93.5	92.8	93.3
Speed	1793	1787	1781	1774	1766	1757	1769
Line amperes	14.3	18.6	24	30.4	37.2	44.9	34.5

ABB Motors and Mechanical Inc.

WINDING # 40WGX793

Typical performance - not guaranteed values.

25 HP 3 PH 60 HZ 1770 RPM 460 V 4050M

TORQUES (LB-FT): PO=216 PU=88.8 LR=121 LRA=190





