

ABB BALDOR RELIANCE III

Customer information packet

EWDM3556T

1//.75HP, 1155//970RPM, 3PH, 60//50HZ, 145T

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	145T
Frame Material	Steel
Frequency	50.00 Hz 60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	.750 HP @ 50 HZ 1.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	380.0 V @ 50 HZ 230.0 V @ 60 HZ 190.0 V @ 50 HZ 460.0 V @ 60 HZ
Agency Approvals	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	3.500 A @ 208.0 V 3.200 A @ 190.0 V 3.000 A @ 230.0 V 1.600 A @ 380.0 V 1.500 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover

Part Detail

Revision	E
Type	AC
Mech. spec.	35S585
Base	
Status	PRD/A
Elec. spec.	35WGG019
Layout	35LYS585
Eff. date	04-23-2026
CD Diagram	CD0005
Poles	06
Leads	9#18
Proprietary	False
Created date	02-23-2023

Duty Rating	CONT
Efficiency @ 100% Load	82.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	1.5 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	J
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3526M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	13.29 IN
Power Factor	67
Product Family	Wash Down
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	1155 rpm 970 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

NP1669L									
CAT.NO.	EWDM3556T								
SPEC.	35S585G019								
HP	1//.75								
VOLTS	230/460//190/380								
AMP	3/1.5//3.2/1.6								
RPM	1155//970								
FRAME	145T		HZ	60//50		PH	3		
SER.F.	1.15	CODE	J	DES	B	CLASS	F		
NEMA-NOM-EFF	82.5	PF	67						
RATING	40C AMB-CONT								
CC									
DE	6205		ODE	6203					
ENCL	TEFC	SN							
BLANK	SFA 3.7/1.85//3.5/1.75								

AC Induction Motor Performance Data

Record # 54266

Typical performance - not guaranteed values

Winding: 35WGM497-R012			Type: 3526M		Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		1	Full Load Torque		4.51 LB-FT	
Volts		230/460	Start Configuration		direct on line	
Full Load Amps		3.6/1.8	Breakdown Torque		15.3 LB-FT	
R.P.M.		1155	Pull-up Torque		11.1 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque	11.9 LB-FT	
NEMA Design Code	B	KVA Code	K	Starting Current	10.8 A	
Service Factor (S.F.)		1.15	No-load Current		1.21 A	
NEMA Nom. Eff.	82.5	Power Factor	64	Line-line Res. @ 25°C	16.1 Ω	
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		47°C	
S.F. Amps			Temp. Rise @ S.F. Load		56°C	
			Locked-rotor Power Factor		41.5	
			Rotor inertia		0.155 lb-ft²	

Load Characteristics 460 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	27	43	55	64	70	75	68
Efficiency	69.2	79.4	82.1	82.7	82	80.4	82.4
Speed	1190	1181	1170	1159	1146	1130	1151
Line amperes	1.25	1.36	1.53	1.75	2.02	2.33	1.91

ABB Motors and Mechanical Inc.

WINDING # 35WGM497

Typical performance - not guaranteed values.

1 HP 3 PH 60 HZ 1155 RPM 460 V 3526M

TORQUES (LB-FT): PO=15.3 PU=11.1 LR=11.9 LRA=10.8





