

ABB BALDOR RELIANCE III

Customer information packet

CEWDM3545

1HP, 3450RPM, 3PH, 60HZ, 56C, 3516M, TEFC, F1, N

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	56C
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	1.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	UR CSA
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	1.400 A @ 460.0 V 2.800 A @ 230.0 V 3.000 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	77.0 %
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	AH
Type	AC
Mech. spec.	35T986
Base	
Status	PRD/A
Elec. spec.	35WGY474
Layout	35LYT986
Eff. date	08-28-2025
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	04-27-2010

High Voltage Full Load Amps	1.4 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3516M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	12.24 IN
Power Factor	87
Product Family	Wash Down
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.25
Shaft Diameter	0.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	3450 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.	CEWDM3545										
SPEC.	35T986Y474G1										
HP	1										
VOLTS	230/460										
AMP	2.8/1.4										
RPM	3450										
FRAME	56C		HZ	60				PH	3		
SER.F.	1.25		CODE	K	DES	B		CLASS	F		
NEMA-NOM-EFF	77		PF	87							
RATING	40C AMB-CONT										
CC	010A										
DE	6205		ODE	6203							
ENCL	TEFC		SN								
BLANK	SFA 3.4/1.7										

AC Induction Motor Performance Data

Record # 67481

Typical performance - not guaranteed values

Winding: 35WGY474-R032			Type: 3516M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		1	Full Load Torque		1.47 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		2.8/1.4	Breakdown Torque		5.6 LB-FT		
R.P.M.		3450	Pull-up Torque		2.56 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		4.62 LB-FT	
NEMA Design Code		B	KVA Code	K	Starting Current		10.5 A
Service Factor (S.F.)		1.25		No-load Current		0.585 A	
NEMA Nom. Eff.		77	Power Factor	87	Line-line Res. @ 25°C		20.016 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		41°C	
S.F. Amps		3.4/1.7		Temp. Rise @ S.F. Load		52°C	
				Locked-rotor Power Factor		64.1	
				Rotor inertia		0.0443 LB-FT2	

Load Characteristics 460 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	55	72	82	86	89	91	89
Efficiency	58.7	71.7	76.4	77.6	77.4	75.9	77.4
Speed	3563.9	3532.9	3499.6	3459.6	3418.2	3365.9	3418
Line amperes	0.68	0.851	1.08	1.37	1.65	2.01	1.65

ABB Motors and Mechanical Inc.

WINDING # 35WGY474

Typical performance - not guaranteed values.

1 HP 3 PH 60 HZ 3450 RPM 460 V 3516M

TORQUES (LB-FT): PO=5.6 PU=2.56 LR=4.62 LRA=10.5





