

ABB BALDOR RELIANCE III

Customer information packet

IDCSWDM3558

2HP, 1750RPM, 3PH, 60HZ, 56C, 3526M, TEFC, F1, N

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	56C
Frame Material	Stainless Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	2.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA EEV NEMA PREMIUM NEMA PREMIUM (OLD LOGO) 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	5.800 A @ 208.0 V 5.200 A @ 230.0 V 2.600 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None

Part Detail

Revision	-
Type	AC
Mech. spec.	35S641
Base	
Status	PRD/A
Elec. spec.	35WGZ165
Layout	35LYS641
Eff. date	02-19-2026
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	11-06-2025

Heater Indicator	No Heater
High Voltage Full Load Amps	2.6 a
Insulation Class	H
Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
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	4
Overall Length	13.22 IN
Power Factor	82
Product Family	Wash Down Paint Free
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1750 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

NP3956L									
CAT.NO.	IDCSWDM3558								
SPEC.	35S641Z165G1								
FRAME	56C			H.P.	2 TE				
VOLTS	230/460								
MAG. CUR.	3.2/1.6			F.L. AMPS				5.6/2.8	
R.P.M.	1760			R.P.M. MAX			2700		
HZ.	60		PH.	3		CLASS		H	
SER.F.	1.00		DES.	B		SL HZ		1.3	
NEMA NOM. EFF.	86.5		WK2	0.189					
BLWR V	PH		HZ		AMPS				
RATING	40C AMB-CONT								
DE BRG	6205		ODE BRG			6203			
CC	010A		SN						

AC Induction Motor Performance Data

Record # 116196

Typical performance - not guaranteed values

Winding: 35WGZ165-R005			Type: 3526M		Enclosure: TEFC		
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		2	Full Load Torque		5.98 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		5.2/2.6	Breakdown Torque		18.4 LB-FT		
R.P.M.		1750	Pull-up Torque		13.7 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		14.5 LB-FT	
NEMA Design Code		B	KVA Code	K	Starting Current		17.9 A
Service Factor (S.F.)		1	No-load Current		1.24 A		
NEMA Nom. Eff.		86.5	Power Factor	82	Line-line Res. @ 25°C		9.47 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		59°C
				Locked-rotor Power Factor		59.3	
				Rotor inertia		0.188 lb-ft²	

Load Characteristics 460 V, 60 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	42	64	76	82	86	87
Efficiency	82.7	87.6	87.9	86.6	84.6	82
Speed	1788	1777	1764	1749	1732	1712
Line amperes	1.35	1.65	2.09	2.61	3.21	3.91

ABB Motors and Mechanical Inc.

WINDING # 35WGZ165

Typical performance - not guaranteed values.

2 HP 3 PH 60 HZ 1750 RPM 460 V 3526M

TORQUES (LB-FT): PO=18.4 PU=13.7 LR=14.5 LRA=17.9





