



Customer information packet

IDVSWDM3558

2HP, 1760RPM, 3PH, 60HZ, 56C, 3528M, 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	460.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	CSA CSA EEV NEMA PREMIUM NEMA_PREMIUM UR
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	5.800 A @ 208.0 V 5.600 A @ 230.0 V 2.800 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

Part detail

Revision	E
Type	AC
Mech. spec.	35S640
Base	
Status	PRD/A
Elec. spec.	35WGG073
Layout	35LYS640
Eff. date	03-03-2025
CD Diagram	CD0005
Poles	04
Leads	9#18 Y
Proprietary	False
Created date	03-11-2022

Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	2.8 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	3528M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	13.24 IN
Power Factor	77
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	1760 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.	IDVSWDM3558								
SPEC.	35S640G073G1								
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		0.202				
BLWR V	PH		HZ		AMPS				
RATING	40C AMB-CONT								
DE BRG	6205	ODE BRG			6203				
CC	010A	SN							
	INV WDG ISR WIRE								

AC Induction Motor Performance Data

Record # 87420

Typical performance - not guaranteed values

Winding: 35WGG073-R006				Type: 3528M		Enclosure: TEFC		
Nameplate Data				460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		2		Full Load Torque		5.99 LB-FT		
Volts		230/460		Start Configuration		direct on line		
Full Load Amps		5.6/2.8		Breakdown Torque		20.5 LB-FT		
R.P.M.		1760		Pull-up Torque		13.8 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		15 LB-FT		
NEMA Design Code		B		KVA Code	L		Starting Current	22.5 A
Service Factor (S.F.)		1		No-load Current		1.62 A		
NEMA Nom. Eff.		86.5		Power Factor	74		Line-line Res. @ 25°C	9.54 Ω
Rating - Duty		40C		AMB-CONT		Temp. Rise @ Rated Load		64°C
				Locked-rotor Power Factor		57.9		
				Rotor inertia		0.202 lb-ft²		

Load Characteristics 460 V, 60 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	35	55	68	76	81	84
Efficiency	78.2	85.3	86.8	86.5	85.4	83.6
Speed	1791	1782	1771	1760	1748	1734
Line amperes	1.71	1.97	2.34	2.82	3.36	3.97

ABB Motors and Mechanical Inc.

WINDING # 35WGG073

Typical performance - not guaranteed values.

2 HP 3 PH 60 HZ 1760 RPM 460 V 3528M

TORQUES (LB-FT): PO=20.5 PU=13.8 LR=15 LRA=22.5





