



## Product Information Packet

# IDVSWDM3538

.5HP,1765RPM,3PH,60HZ,56C,3516M,TENV,F1

Part Detail							
Revision:	M	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	35WGM303	CD Diagram:	CD0005	Mfg Plant:	
Mech. Spec:	35S639	Layout:	35LYS639	Poles:	04	Created Date:	11-24-2010
Base:	N	Eff. Date:	08-09-2018	Leads:	9#18		

Specs			
Catalog Number:	IDVSWDM3538	Insulation Class:	H
Enclosure:	TENV	Inverter Code:	Inverter Duty
Frame:	56C	KVA Code:	N
Frame Material:	Stainless Steel	Lifting Lugs:	No Lifting Lugs
Output @ Frequency:	.500 HP @ 60 HZ	Locked Bearing Indicator:	Locked Bearing
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	Motor Lead Quantity/Wire Size:	9 @ 18 AWG
Voltage @ Frequency:	230.0 V @ 60 HZ	Motor Lead Exit:	Ko Box
	460.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
XP Class and Group:	None	Motor Type:	3516M
XP Division:	Not Applicable	Mounting Arrangement:	F1
Agency Approvals:	UR	Power Factor:	64
	CSA	Product Family:	Wash Down Paint Free
Auxillary Box:	No Auxillary Box	Pulley End Bearing Type:	Sealed Bearing
Auxillary Box Lead Termination:	None	Pulley Face Code:	C-Face
Base Indicator:	No Mounting	Pulley Shaft Indicator:	Standard
Bearing Grease Type:	Polyrex EM (-20F +300F)	Rodent Screen:	None
Blower:	None	Shaft Extension Location:	Pulley End
Current @ Voltage:	.900 A @ 460.0 V	Shaft Ground Indicator:	No Shaft Grounding

	1.800 A @ 230.0 V	Shaft Rotation:	Reversible
Design Code:	B	Shaft Slinger Indicator:	No Slinger
Drip Cover:	No Drip Cover	Speed Code:	Single Speed
Duty Rating:	CONT	Motor Standards:	NEMA
Electrically Isolated Bearing:	Not Electrically Isolated	Starting Method:	Direct on line
Feedback Device:	NO FEEDBACK	Thermal Device - Bearing:	NONE (OLD)
Front Face Code:	Standard	Thermal Device - Winding:	Normally Closed Thermostat
Front Shaft Indicator:	None	Vibration Sensor Indicator:	No Vibration Sensor
Heater Indicator:	No Heater	Winding Thermal 1:	None
		Winding Thermal 2:	None

## Nameplate NP1608L

CAT NO	IDVSWDM3538									
SPEC.	35S639M303G1									
FRAME	56C				HP	.5	TE			
VOLTS	230/460									
MAG CUR	1.4/.7					FLA	1.8/.9			
RPM	1765				RPM MAX	6000				
HZ	60			PH	3	CLASS	H			
SER.F.	1.00			DES	B		SL HZ	1.2		
NEMA-NOM-EFF	84			WK2	0.1					
BLWR V			PH		HZ		A			
RATING	40C AMB-CONT									
DE BRG	6205			ODE BRG	6203					
CC			SN							

Parts List		
Part Number	Description	Quantity
SA212871	SA 35S639M303G1	1.000 EA
RA200100	RA 35S639M303G1	1.000 EA
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 EA
35CB5001A03	CONDUIT BOX KIT, FOR SUPER II WASHDOWN	1.000 EA
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 EA
35EP3122D00U	MASTER ODE,203 BRG,.125NPT DRNS(BALL BUR	1.000 EA
HW4500A33	1/8 NPT STAINLESS,HOLO-KROME #13002,PRES	3.000 EA
HW5100A03	WAVY WASHER (W1543-017)	1.000 EA
35EP3307E00U	MASTER DE,205 BRG,1.623SH,.125NPT DRNS,C	1.000 EA
HW4500A33	1/8 NPT STAINLESS,HOLO-KROME #13002,PRES	3.000 EA
HW4606A02	JM CLIPPER/SEAL (LWE-0938-1624-AL23)	1.000 EA
12XN1032S20	10-32 X 1-1/4 HEX M.S. , STAINLESS STEEL	2.000 EA
HA1049A01	DUBO LOK WASHER SIZE 10 (NYLON LOCK SEAL	2.000 EA
HA1049A01	DUBO LOK WASHER SIZE 10 (NYLON LOCK SEAL	4.000 EA
HW2502D13	SS KEY, 3/16 SQ X 1.375	1.000 EA
HA7000A04	KEY RETAINER 0.625 DIA SHAFTS	1.000 EA
MJ5001A02	732 CL SEALANT 3 OZ DIXIE BEARING 289100	0.001 EA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 EA
LB1164	LABEL,WARNING AND DRAIN	1.000 EA
HA5027A02	HA4054 T-DRAIN X2 BAGGED WITH LABEL	1.000 EA
MJ1000A02	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.050 LB
HA3100S12	THRUBOLT 7.625 LENGTH 1.250 TH LENGTH SS	4.000 EA
LC0145B01	CONNECTION LABEL	1.000 EA
NP1608L	SS WD INV UL CSA CC REV MTG	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
35PA1066	PKG GRP, PRINT    PK1008A06	1.000 EA
PK3082	STYROFOAM CRADLE	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 5/18	1.000 EA

**AC Induction Motor Performance Data**

Record # 33323 - Typical performance - not guaranteed values

<b>Winding:</b> 35WGM303-R003	<b>Type:</b> 3516M	<b>Enclosure:</b> TENV
-------------------------------	--------------------	------------------------

Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	.5			Full Load Torque	1.49 LB-FT
Volts	230/460			Start Configuration	direct on line
Full Load Amps	1.8/.9			Breakdown Torque	8.65 LB-FT
R.P.M.	1765			Pull-up Torque	4.54 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	5.09 LB-FT
NEMA Design Code	B	KVA Code	N	Starting Current	7.54 A
Service Factor (S.F.)	1			No-load Current	0.655 A
NEMA Nom. Eff.	84	Power Factor	64	Line-line Res. @ 25°C	25.6 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	54°C

**Load Characteristics 460 V, 60 Hz, 0.5 HP**

% of Rated Load	25	50	75	100	125	150
Power Factor	26	41	54	64	70	75
Efficiency	65.5	77.9	81.9	83.6	83.9	83.5
Speed	1793	1783	1774	1765	1755	1745
Line amperes	0.674	0.725	0.793	0.885	0.986	1.11

Performance Graph at 460V, 60Hz, 0.5HP Typical performance - Not guaranteed values





