

BALDOR® • RELIANCE

Product Information Packet

IDCSWDM3538

.5HP,1750RPM,3PH,60HZ,56C,3514M,TENV,F1

Part Detail							
Revision:	R	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	3514M	Elec. Spec:	35WGP881	CD Diagram:	CD0005
Enclosure:	TENV	Mfg Plant:		Mech. Spec:	35S638	Layout:	35LYS638
Frame:	56C	Mounting:	F1	Poles:	04	Created Date:	06-13-2008
Base:	RG	Rotation:	R	Insulation:	H	Eff. Date:	02-02-2017
Leads:	9#18					Replaced By:	
Literature:		Elec. Diagram:					

CAT NO	IDCSWDM3538									
SPEC.	35S638P881									
FRAME	56C				HP .5			TE		
VOLTS	208-230/460									
MAG CUR	1/5				FLA		1.7-1.6/.8			
RPM	1750				RPM MAX		6000			
HZ	60			PH 3		CLASS H				
SER.F.	1.00			DES B		SL HZ		1.7		
NEMA-NOM-EFF	82.5			WK2		0.0827				
BLWR V			PH				HZ		A	
RATING	40C AMB-CONT									
DE BRG	6205			ODE BRG			6203			
CC			SN							

Parts List		
Part Number	Description	Quantity
SA174231	SA 35S638P881	1.000 EA
RA162375	RA 35S638P881	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
35EP3100M72MU	SPL FR EP-ENCL-203 BRG-DIE CAST ALUM(BAL	1.000 EA
HW4500A33	1/8 NPT STAINLESS,HOLO-KROME #13002,PRES	3.000 EA
HW5100A03	WAVY WASHER (W1543-017)	1.000 EA
35PE3300A75MU	PU E.P., CAST-FACE MTD-56C-205 BRG(BALL	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
HA5027A04	HA4054 T-DRAIN X2 BAGGED	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
MN416A01	TAG-INSTAL-MAINT no wire (1000/bx) 11/14	1.000 EA

AC Induction Motor Performance Data

Record # 26876 - Typical performance - not guaranteed values

Winding: 35WGP881-R001	Type: 3514M	Enclosure: TENV
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Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	.5			Full Load Torque	1.49 LB-FT
Volts	208-230/460			Start Configuration	direct on line
Full Load Amps	1.68-1.54/.77			Breakdown Torque	7.12 LB-FT
R.P.M.	1755			Pull-up Torque	4.05 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	5.09 LB-FT
NEMA Design Code	B	KVA Code	N	Starting Current	7.1 A
Service Factor (S.F.)	1			No-load Current	0.538 A
NEMA Nom. Eff.	82.5	Power Factor	72	Line-line Res. @ 25°C	32.4 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	59°C
				Locked-rotor Power Factor	67
				Rotor inertia	0.0827 LB-FT ²

Load Characteristics 460 V, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	30	48	62	72	78	84
Efficiency	68.2	79.7	82.4	83.9	83.4	82.3
Speed	1789	1778	1767	1755	1743	1728
Line amperes	0.56	0.607	0.681	0.773	0.892	1.02

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





