

BALDOR® • RELIANCE

Product Information Packet

M3154T

1.5HP,1760RPM,3PH,60HZ,145T,3519M,OPSB,F

Part Detail							
Revision:	G	Status:	INA/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	35WGP800	CD Diagram:	CD0005	Mfg Plant:	
Mech. Spec:	35B101	Layout:	35LYB101	Poles:	04	Created Date:	11-06-2007
Base:	RG	Eff. Date:	07-19-2010	Leads:	9#18		

Specs			
Enclosure:	ODP	Insulation Class:	B
Frame:	145T	Inverter Code:	Not Inverter
Frame Material:	Steel	KVA Code:	L
Output @ Frequency:	1.500 HP @ 60 HZ	Lifting Lugs:	No Lifting Lugs
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	Locked Bearing Indicator:	No Locked Bearing
Voltage @ Frequency:	208.0 V @ 60 HZ	Motor Lead Quantity/Wire Size:	9 @ 18 AWG
	230.0 V @ 60 HZ	Motor Lead Exit:	Ko Box
	460.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
XP Division:	Not Applicable	Motor Type:	3519M
Agency Approvals:	CSA	Mounting Arrangement:	F1
	UR	Power Factor:	69
Auxillary Box:	No Auxillary Box	Product Family:	General Purpose
Auxillary Box Lead Termination:	None	Pulley End Bearing Type:	Ball
Base Indicator:	Rigid	Pulley Face Code:	Standard
Bearing Grease Type:	Polyrex EM (-20F +300F)	Pulley Shaft Indicator:	Standard
Blower:	None	Rodent Screen:	None
Current @ Voltage:	5.200 A @ 208.0 V	Shaft Extension Location:	Pulley End
	4.800 A @ 230.0 V	Shaft Ground Indicator:	No Shaft Grounding

	2.400 A @ 460.0 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
Front Face Code:	Standard	Thermal Device - Winding:	None
Front Shaft Indicator:	None	Vibration Sensor Indicator:	No Vibration Sensor
Heater Indicator:	No Heater	Winding Thermal 1:	None
		Winding Thermal 2:	None

Nameplate NP1256L										
CAT.NO.	M3154T									
SPEC.	35B101P800H1									
HP	1.5									
VOLTS	208-230/460									
AMP	5.2-4.8/2.4									
RPM	1760									
FRAME	145T				HZ	60			PH	3
SER.F.	1.15		CODE	L	DES	B		CLASS	B	
NEMA-NOM-EFF	84		PF	69						
RATING	40C AMB-CONT									
CC	010A				USABLE AT 208V					
DE	6205				ODE	6203				
ENCL	OPSB		SN							

Parts List		
Part Number	Description	Quantity
SA164678	SA 35B101P800H1	1.000 EA
RA153104	RA 35B101P800H1	1.000 EA
S/P101-000-000	EPACT PROCEDURES-FS PLANT-POLYREX EM, NO	1.000 EA
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 EA
35CB3007	35 CB CASTING W/.88 DIA. LEAD HOLE	1.000 EA
51XB1016A07	10-16 X 7/16 HXWSSLD SERTYB	2.000 EA
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 EA
35FE3201A01	FREP ASSEMBLY FOR ROUTING	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
HW5100A03	WAVY WASHER (W1543-017)	1.000 EA
35PE3200A01	PUEP ASSEMBLY FOR ROUTING PURPOSES	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	4.000 EA
35CB4521	35 LIPPED CB LID (GALV & PHOSPH)	1.000 EA
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 EA
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 EA
HA7000A01	KEY RETAINER 7/8" DIA SHAFT	1.000 EA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 EA
MJ1000A02	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.050 LB
MG1000G27	MED CHARCOAL METALLIC GREY 400-0096	0.017 GA
35AD2005A01	BAFFLE PLATE,MOD 35-SLTD BAND MTRS GL.F.	2.000 EA
HA3100A15	THRUBOLT 10-32 X 8.375	4.000 EA
LC0005E01	CONN.DIA./WARNING LABEL (LC0005/LB1119N)	1.000 EA
LB1125C04	STD-E (STOCK CTN LABEL STD-E WITH FLAG)	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
NP1256L	ALUM UL CSA CC	1.000 EA
PA1000	PACKING GROUP 3500 SHORT	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1100/bx) 11/14	1.000 EA

Accessories		
Part Number	Description	Multiplier
35-8764	C FACE KIT	A8
35EP1604A01SP	D-FLANGE KIT	A8

AC Induction Motor Performance Data

Record # 26025 - Typical performance - not guaranteed values

Winding: 35WGP800-R001	Type: 3520M	Enclosure: OPSB
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Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	1.5			Full Load Torque	4.4 LB-FT
Volts	208-230/460			Start Configuration	direct on line
Full Load Amps	5.2-4.80/2.40			Breakdown Torque	18.86 LB-FT
R.P.M.	1760			Pull-up Torque	12.59 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	14.32 LB-FT
NEMA Design Code	B	KVA Code	L	Starting Current	19.06 A
Service Factor (S.F.)	1.15			No-load Current	1.66 A
NEMA Nom. Eff.	84	Power Factor	69	Line-line Res. @ 25°C	10 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	34°C
S.F. Amps				Temp. Rise @ S.F. Load	39°C
				Locked-rotor Power Factor	53.5
				Rotor inertia	0.118 LB-FT ²

Load Characteristics 460 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	29	46	60	69	75	79	73
Efficiency	69.1	79.6	83.6	84.4	84.4	83.8	84.3
Speed	1792	1783	1774	1764	1752	1739	1755
Line amperes	1.72	1.87	2.09	2.37	2.75	3.16	2.6

Performance Graph at 460V, 60Hz, 1.5HP Typical performance - Not guaranteed values





