

BALDOR® • RELIANCE

Product Information Packet

M3554T-50

1.5HP,1425RPM,3PH,50HZ,145T,3524M,TEFC

Part Detail							
Revision:	AH	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	3524M	Elec. Spec:	35WGX142	CD Diagram:	CD0044
Enclosure:	TEFC	Mfg Plant:		Mech. Spec:	35A001	Layout:	35LYA001
Frame:	145T	Mounting:	F1	Poles:	04	Created Date:	
Base:	RG	Rotation:	R	Insulation:	F	Eff. Date:	07-03-2014
Leads:	12#18					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP1256L										
CAT.NO.										
SPEC.	35A01X142									
HP	1.5									
VOLTS	220/380/440									
AMP	4.4/2.5/2.2									
RPM	1425									
FRAME	145T	HZ			50	PH		3		
SER.F.	1.15	CODE			K	DES		B	CLASS	F
NEMA-NOM-EFF	81.5	PF			81					
RATING	40C AMB-CONT									
CC		USABLE AT 208V								
DE	6205	ODE			6203					
ENCL	TEFC	SN								

Parts List		
Part Number	Description	Quantity
SA022761	SA 35A01X142	1.000 EA
RA018811	RA 35A01X142	1.000 EA
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 EA
35CB3007	35 CB CASTING W/.88 DIA. LEAD HOLE	1.000 EA
36GS1000SP	GASKET-CONDUIT BOX, .06 THICK #SV-330 LE	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
35EP3100M01	FREP TEFC 203 BRG W/GRSR (RAISED FH PADS	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
HW5100A03SP	WAVY WASHER (W1543-017)	1.000 EA
35EP3101A01SP	STD PU EP-ENCLOSED-205 BRG-W/GREASER	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	4.000 EA
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 EA
35FH4005A84SP	IEC FH W/GRSR, NO DIMPLES W/AUTOPHERETIC	1.000 EA
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 EA
35CB4521GX	CONDUIT BOX LID KIT	1.000 EA
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 EA
HW2501D13SP	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
MJ1000A75	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.050 LB
35FN3002A05SP	EXFN, PLASTIC, 6.376 OD, .638 ID	1.000 EA
MG1000G27	MED CHARCOAL METALLIC GREY	0.017 GA

Parts List (continued)		
Part Number	Description	Quantity
HA3100A18	THRUBOLT 10-32 X 9.250	4.000 EA
LB1119N	WARNING LABEL	1.000 EA
LB1172A01	CUSTOM MTR CARTON LABEL LASER PRINTER	1.000 EA
LC0044	CONNECTION DIAGRAM	1.000 EA
NP1256L	ALUM UL CSA CC	1.000 EA
PA1000	PACKING GROUP 3500 SHORT	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 10/13	1.000 EA

Accessories		
Part Number	Description	Multiplier
35-8762	C FACE KIT	A8
35EP1506A01SP	D-FLANGE KIT	A8

AC Induction Motor Performance Data

Record # 20597 - Typical performance - not guaranteed values

Winding: 35WGX142-R004	Type: 3524M	Enclosure: TEFC
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Nameplate Data				440 V, 50 Hz: High Voltage Connection	
Rated Output (HP)	1.5			Full Load Torque	5.6 LB-FT
Volts	220/380/440			Start Configuration	direct on line
Full Load Amps	4.4/2.5/2.2			Breakdown Torque	21 LB-FT
R.P.M.	1425			Pull-up Torque	16 LB-FT
Hz	50	Phase	3	Locked-rotor Torque	18 LB-FT
NEMA Design Code	B	KVA Code	K	Starting Current	16 A
Service Factor (S.F.)	1.15			No-load Current	1.4 A
NEMA Nom. Eff.	81.5	Power Factor	81	Line-line Res. @ 25°C	13 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	77°C
S.F. Amps				Temp. Rise @ S.F. Load	86°C
				Rotor inertia	0.142 LF ²

Load Characteristics 440 V, 50 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	38	59	72	81	86	89	84
Efficiency	66.4	76.8	79.5	79.5	78.2	75.8	78.7
Speed	1480	1461	1440	1417	1391	1360	1401
Line amperes	1.4	1.6	1.9	2.3	2.7	3.3	2.5

Performance Graph at 440V, 50Hz, 1.5HP Typical performance - Not guaranteed values





