

BALDOR® • RELIANCE

Product Information Packet

CM7071T-50

2HP,2850RPM,3PH,50HZ,145TC,X3524M,XPFC

Part Detail							
Revision:	AB	Status:	INA/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	3524M	Elec. Spec:	35WGX419	CD Diagram:	CD0044
Enclosure:	XPFC	Mfg Plant:		Mech. Spec:	35E377	Layout:	35LYE377
Frame:	145TC	Mounting:	F1	Poles:	02	Created Date:	06-27-2007
Base:	RG	Rotation:	R	Insulation:	B	Eff. Date:	03-19-2012
Leads:	12#18					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP1426XP						
NO.		CC				
SER.						
SPEC.	35E377X419					
CAT.NO.						
HP	2	T. CODE	T3C			
VOLTS	220/380/440					
AMPS	5.6/3.2/2.8					
RPM	2850					
HZ	50	PH	3	CL	B	
SER.F.	1.00	DES	B	CODE	H	
RATING	40C AMB-CONT					
FRAME	145TC	NEMA-NOM-EFF	80	PF	89	
USABLE AT 208V						

Parts List		
Part Number	Description	Quantity
SA024107	SA 35E377X419	1.000 EA
RA020157	RA 35E377X419	1.000 EA
35CB3001A02SP	EXPL PROOF CONDUIT BOX, 3/4"PIPE TAP LEA	1.000 EA
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 EA
HW3001B01	003SS CUP WASHER, FOR #8 SCREW	1.000 EA
35EP3700A01SP	FR ENDPLATE, XPFC	1.000 EA
HW5100A03SP	WAVY WASHER (W1543-017)	1.000 EA
35EP3702A01SP	PU EP-205 BRG-35X-56C-143-5TC	1.000 EA
51XN1032A16	10-32 X 1.000 HX WS SL SR	2.000 EA
HA3013A01	1/2-20X5/8 SPL.HX BOLT	2.000 EA
HW3021C06	3/32 DI X .625 PIN (F/S)	2.000 EA
XY3118A12	5/16-18 HEX NUT DIRECTIONAL SERRATION	4.000 EA
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 EA
35CB3500A01SP	CONDUIT BOX LID, MACH	1.000 EA
51XN2520A16	SCREW, HEX WS SLT, ZN, 1/4-20 X 1.00	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	6.000 EA
MJ1000A75	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.050 LB
35FN3002A05SP	EXFN, PLASTIC, 6.376 OD, .638 ID	1.000 EA
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 EA
35FH4005A01SP	IEC FH NO GREASER W/AUTOPHORETIC PRIMER	1.000 EA
MG1025Z20	ACTIVATOR WILKOFAS 060.32	0.010 GA
MG1025G29	MUNSELL 4.5Y 5.3/0.7 DARK CHARCOAL GREY	0.017 GA

Parts List (continued)		
Part Number	Description	Quantity
NP0018	NP- XP CONDUIT BOX DO NOT MAKE SELLABLE	1.000 EA
HA3104A08	THRUBOLT-5/16-18X9.375 X X	4.000 EA
LB1119N	WARNING LABEL	1.000 EA
LB1125C01	STD (STOCK) CARTON LABEL BALDOR WITH FLA	1.000 EA
LC0044	CONNECTION DIAGRAM	1.000 EA
NP1426XP	UL/CSA, CLI GP-D,CLII GP-F&G,CC	1.000 EA
36PA1000	PACK GROUP W/LB5001	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 10/13	1.000 EA

AC Induction Motor Performance Data

Record # 9995 - Typical performance - not guaranteed values

Winding: 35WGX419-R001	Type: 3524M	Enclosure: TEFC
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Nameplate Data				440 V, 50 Hz: High Voltage Connection	
Rated Output (HP)	2			Full Load Torque	3.7 LB-FT
Volts	220/380/440			Start Configuration	direct on line
Full Load Amps	5.6/3.2/2.8			Breakdown Torque	13.5 LB-FT
R.P.M.	2850			Pull-up Torque	8.5 LB-FT
Hz	50	Phase	3	Locked-rotor Torque	11.5 LB-FT
NEMA Design Code	B	KVA Code	H	Starting Current	20.5 A
Service Factor (S.F.)	1			No-load Current	1.2 A
NEMA Nom. Eff.	80	Power Factor	89	Line-line Res. @ 25°C	8.41 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	53°C
				Rotor inertia	0.0664 LF ²

Load Characteristics 440 V, 50 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	54	73	83	88	90	92
Efficiency	65.6	76.6	80	80.7	80.1	78.7
Speed	2964	2935	2902	2867	2828	2784
Line amperes	1.4	1.7	2.2	2.8	3.4	4.1

Performance Graph at 440V, 50Hz, 2.0HP Typical performance - Not guaranteed values





