

BALDOR® • RELIANCE

Product Information Packet

CM7018T-50

1.5HP, 2850RPM, 3PH, 50HZ, 143TC, X3520M, XPFC

Part Detail							
Revision:	X	Status:	INA/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	3520M	Elec. Spec:	35WGY973	CD Diagram:	CD0044
Enclosure:	XPFC	Mfg Plant:		Mech. Spec:	35E377	Layout:	35LYE377
Frame:	143TC	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.	35E377Y973				
CAT.NO.					
HP	1.5	T. CODE	T3C		
VOLTS	220/380/440				
AMPS	4.4/2.5/2.2				
RPM	2850				
HZ	50	PH	3	CL	B
SER.F.	1.00	DES	B	CODE	J
RATING	40C AMB-CONT				
FRAME	143TC	NEMA-NOM-EFF	81.5	PF	88
USABLE AT 208V					

Parts List		
Part Number	Description	Quantity
SA024108	SA 35E377Y973	1.000 EA
RA020158	RA 35E377Y973	1.000 EA
MJ5000A09	EFI KIT #1578 (400 ML CARTRIDGE OF EFI	0.050 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
35FH4005A01SP	IEC FH NO GREASER W/AUTOPHORETIC PRIMER	1.000 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
NP0018	NP- XP CONDUIT BOX DO NOT MAKE SELLABLE	1.000 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

Parts List (continued)		
Part Number	Description	Quantity
MG1025G29	MUNSELL 4.5Y 5.3/0.7 DARK CHARCOAL GREY	0.014 GA
HA3104A06	THRUBOLT 5/16-18 X 8.50 OHIO ROD	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

AC Induction Motor Performance Data

Record # 10381 - Typical performance - not guaranteed values

Winding: 35WGY973-R001	Type: 3520M	Enclosure: TEFC
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Nameplate Data				440 V, 50 Hz: High Voltage Connection	
Rated Output (HP)	1.5			Full Load Torque	2.8 LB-FT
Volts	220/380/440			Start Configuration	direct on line
Full Load Amps	4.4/2.5/2.2			Breakdown Torque	9.3 LB-FT
R.P.M.	2850			Pull-up Torque	9.3 LB-FT
Hz	50	Phase	3	Locked-rotor Torque	9.2 LB-FT
NEMA Design Code	B	KVA Code	J	Starting Current	15 A
Service Factor (S.F.)	1.15			No-load Current	1.1 A
NEMA Nom. Eff.	81.5	Power Factor	88	Line-line Res. @ 25°C	11.8 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	64°C
S.F. Amps				Temp. Rise @ S.F. Load	81°C
				Rotor inertia	0.0553 LF ²

Load Characteristics 440 V, 50 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	48	67	79	85	89	91	0
Efficiency	64.3	75.6	79.1	79.8	79.2	77.7	0
Speed	2962	2929	2894	2855	2812	2763	0
Line amperes	1.2	1.4	1.8	2.2	2.7	3.1	2.4

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





