



Product Information Packet

IDM3770T

7.5HP,1770RPM,3PH,60HZ,213TC,0738M,TEBC

Part Detail							
Revision:	L	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	07WGX790	CD Diagram:	CD0005	Mfg Plant:	
Mech. Spec:	07J137	Layout:	07LYJ137	Poles:	04	Created Date:	11-09-2006
Base:	RG	Eff. Date:	11-29-2017	Leads:	9#14		

Specs			
Catalog Number:	IDM3770T	Insulation Class:	H
Enclosure:	TEBC	Inverter Code:	Inverter Duty
Frame:	213TC	KVA Code:	J
Frame Material:	Iron	Lifting Lugs:	Standard Lifting Lugs
Output @ Frequency:	7.500 HP @ 60 HZ	Locked Bearing Indicator:	Locked Bearing
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	Motor Lead Quantity/Wire Size:	9 @ 14 AWG
Voltage @ Frequency:	230.0 V @ 60 HZ	Motor Lead Exit:	Ko Box
	460.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
XP Class and Group:	None	Motor Type:	0738M
XP Division:	Not Applicable	Mounting Arrangement:	F1
Agency Approvals:	UR	Power Factor:	81
	CSA	Product Family:	General Purpose
Auxillary Box:	No Auxillary Box	Pulley End Bearing Type:	Ball
Auxillary Box Lead Termination:	None	Pulley Face Code:	C-Face
Base Indicator:	Rigid	Pulley Shaft Indicator:	Standard
Bearing Grease Type:	Polyrex EM (-20F +300F)	Rodent Screen:	None
Blower:	460V 3-Phase EXT	Shaft Extension Location:	Pulley End
Current @ Voltage:	19.000 A @ 230.0 V	Shaft Ground Indicator:	No Shaft Grounding

	9.500 A @ 460.0 V	Shaft Rotation:	Reversible
Design Code:	A	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:	Encoder/Feedback Device	Thermal Device - Winding:	Normally Closed Thermostat
Front Shaft Indicator:	None	Vibration Sensor Indicator:	No Vibration Sensor
Heater Indicator:	No Heater	Winding Thermal 1:	None
		Winding Thermal 2:	None

Nameplate NP1162L

CAT NO	IDM3770T									
SPEC.	07J137X790G1									
FRAME	213TC				HP	7.5	TE			
VOLTS	230/460									
MAG CUR	8.6/4.3				FLA	19/9.5				
RPM	1770				RPM MAX	4000				
HZ	60			PH	3	CLASS	H			
SER.F.	1.00			DES	A	SL HZ	1			
NEMA-NOM-EFF	91.7			WK2	0.934					
BLWR V	460		PH	3	HZ	60	A	.25		
RATING	40C AMB-CONT									
DE BRG	6307			ODE BRG	6206					
CC	010A		SN							

Parts List		
Part Number	Description	Quantity
SA150985	SA 07J137X790G1	1.000 EA
RA139823	RA 07J137X790G1	1.000 EA
HW3201A05	3/8-16 EYEBOLT	1.000 EA
09CB3002SP	CB W/1.38 LEAD HOLE FOR 37, 39, 307 & 30	1.000 EA
09GS1000SP	GASKET-CONDUIT BOX, 1/16 THICK LEXIDE	1.000 EA
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	2.000 EA
59XW2520G07	.25-20X.44,HEX SER WSHR,TAPTITE 2,GREEN	1.000 EA
HA1005A11	SLINGER, OD 2.00, ID 1.15,	1.000 EA
37EP1100B61	FR TEBC 206 BRG W/ GRSR & THRU-SHAFT ENC	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
HW5100A06	W2420-025 WVY WSHR (WB)	1.000 EA
37PE1300A01	PU ENDPLATE ASSEMBLY FOR ROUTING	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
10XN2520A30	HEX HD CAP SCREW-STD THD-.25 X 20 THD PE	4.000 EA
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 EA
09CB3501SP	CONDUIT BOX LID FOR 09CB3001 & 09CB3002	1.000 EA
XY3118A12	5/16-18 HEX NUT DIRECTIONAL SERRATION	4.000 EA
10XN2520A08	1/4-20X1/2 HEX HEAD CAP	2.000 EA
HA3218A06	MALE-FEMALE STANDOFF .25-20 .38 HEX X .5	3.000 EA
10XN2520A06	1/4 20X3/8 HX HD CAP	3.000 EA
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	3.000 EA
09GS1013SP	09 GS FOR 09CB3501 LID - LEXIDE	1.000 EA
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	2.000 EA
HW2501F21	KEY, 5/16 SQ X 2.375	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
HA7000A02	KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA	1.000 EA
MJ5004A05	#242-21 LOCTITE GENERAL PURPOSE MED. STR	0.005 EA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 EA
LB1115N	LABEL,LIFTING DEVICE (ON ROLLS)	1.000 EA
LB1009N	LABEL,ROTATION DIRECTION (ON ROLLS)	1.000 EA
MJ1000A02	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.050 LB
07FH5002A03	BLOWER ASSY. ,07FH4001, EF5000	1.000 EA
MG1000G27	MED CHARCOAL METALLIC GREY 400-0096	0.036 GA
LC0034	CONNECTION LABEL	1.000 EA
HA3104A32	THRUBOLT- 5/16-18 X12.750	4.000 EA
LB1119N	WARNING LABEL	1.000 EA
LC0145B01	CONNECTION LABEL	1.000 EA
NP1162L	SS INV UL CSA CC	1.000 EA
07PA1016	PACKAGING GROUP, STD -E (07 TALL CRATE)	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 5/18	1.000 EA

AC Induction Motor Performance Data

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AC Induction Motor Performance Data
 Record # 23294
 Typical performance - not guaranteed values

Winding: 07WGX790	Type: 0735M	Enclosure: TEFC
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Nameplate Data			General Characteristics at 460 V, 60 Hz: High Volt Connection				
Rated Output (HP)	7.5		Full Load Torque	22.1 LB-FT			
Volts	230/460		Start Configuration	DOL			
Full Load Amps	19/9.5		Break Down Torque	69.8 LB-FT			
R.P.M.	1770		Pull-Up Torque	34.3 LB-FT			
Hz	60	Phase	Locked-rotor Torque	42.2 LB-FT			
NEMA Design Code	A	KVA Code	Starting Current	68 Amps			
Service Factor	1		No-load Current	4.18 Amps			
NEMA Nom. Eff.	91.7	P.F.	Line-line Res. @ 25°C.	1.43 Ohms			
Rating - Duty	40C AMB-CONT		Temp. Rise @ Rated Load	42°C			
S.F. Amps			Temp. Rise @ S.F. Load				

Load Characteristics at 460 Volts, 60 Hz, 7.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	43	65	76	81	83	84	
Efficiency	87.4	91.6	92.3	92	91.2	90.1	
Speed	1792	1784	1777	1769	1760	1750	
Line Amperes	4.68	5.93	7.53	9.44	11.6	13.9	

Baldor Electric Company Fort Smith, Arkansas



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