



Product Information Packet

EBM3710T

7.5HP,1770RPM,3PH,60HZ,213T,3738M,TEFC,F

Part Detail							
Revision:	D	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	37WGR872	CD Diagram:	CD0005	Mfg Plant:	
Mech. Spec:	37L065	Layout:	37LYL065	Poles:	04	Created Date:	12-09-2015
Base:	RG	Eff. Date:	09-05-2017	Leads:	9#14		

Specs			
Catalog Number:	EBM3710T	Inverter Code:	Inverter Ready
Enclosure:	TEFC	KVA Code:	J
Frame:	213T	Lifting Lugs:	Standard Lifting Lugs
Frame Material:	Steel	Locked Bearing Indicator:	No Locked Bearing
Output @ Frequency:	7.500 HP @ 60 HZ	Motor Lead Quantity/Wire Size:	9 @ 14 AWG
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	Motor Lead Exit:	Ko Box
Voltage @ Frequency:	460.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
	230.0 V @ 60 HZ	Motor Type:	3738M
XP Class and Group:	None	Mounting Arrangement:	F1
XP Division:	Not Applicable	Power Factor:	80
Agency Approvals:	CSA	Product Family:	General Purpose
	CSA EEV	Product Type:	BRAKE MOTOR
	UR	Pulley End Bearing Type:	Ball
Auxillary Box:	No Auxillary Box	Pulley Face Code:	Standard
Auxillary Box Lead Termination:	None	Pulley Shaft Indicator:	Standard
Base Indicator:	Rigid	Rodent Screen:	None
Bearing Grease Type:	Polyrex EM (-20F +300F)	RoHS Status:	ROHS COMPLIANT
Current @ Voltage:	19.000 A @ 230.0 V	Shaft Extension Location:	Pulley End

	20.000 A @ 208.0 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 (OLD)
Front Face Code:	Brake Mounting	Thermal Device - Winding:	None
Front Shaft Indicator:	None	Vibration Sensor Indicator:	No Vibration Sensor
Heater Indicator:	No Heater	Winding Thermal 1:	None
Insulation Class:	F	Winding Thermal 2:	None

Nameplate NP1259L

CAT.NO.	EBM3710T											
SPEC.	37L065R872G1											
HP	7.5											
VOLTS	230/460											
AMP	19/9.5											
RPM	1770											
FRAME	213T				HZ		60			PH		3
SER.F.	1.15		CODE		J	DES		A	CL		F	
NEMA-NOM-EFF	91.7			PF		80						
RATING	40C AMB-CONT											
CC	010A			USABLE AT 208V								20
DE	6307				ODE		6306					
ENCL	TEFC		SN									

Parts List		
Part Number	Description	Quantity
SA311598	SA 37L065R872G1	1.000 EA
RA299023	RA 37L065R872G1	1.000 EA
HW3200A01	3/8-16X3/4 I-BLT WELDED F/S	1.000 EA
37CB3004	37 CB CASTING W/1.09 LEAD HOLE @ 6:00	1.000 EA
37GS1000SP	GASKET, CONDUIT BOX STD., .06 THICK LEXI	1.000 EA
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	2.000 EA
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 EA
HW3001B01	BRASS CUP WASHER, FOR #10 SCREW	1.000 EA
37EP1301A97	STD FACE MTD ENDPLATE, BRAKE MTG	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
HW5100A07	W2816-030 WVY WASHER (WB)	1.000 EA
37PE3100A01	PUEP ASSEMBLY - ROUTING PUPROSES	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
XY3118A12	5/16-18 HEX NUT DIRECTIONAL SERRATION	4.000 EA
84XN5013L12	.50-13 X .75 NYLOK TYPE HEX.SOC.HD.CAP S	4.000 EA
HW2501E10	KEY, 1/4 SQ X 1.000	1.000 EA
80XN2520A06	1/4-20 X 3/8 SET SCREW	1.000 EA
37FH5007	W/FINGER GUARDS	1.000 EA
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 EA
37CB4516	LIPPED LID FOR 37 FRAME NEC KOBX	1.000 EA
37GS1008	37 GS FOR CB LID - LEXIDE	1.000 EA
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 EA
HW2501F21	KEY, 5/16 SQ X 2.375	1.000 EA
HA7000A02	KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 EA
LB1115N	LABEL,LIFTING DEVICE (ON ROLLS)	1.000 EA
MJ1000A02	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.050 LB
37FN5001A01SP	EXFN ASSY, BALTRIC, 8.50 OD, .986 ID	1.000 EA
MG1000Y03	MUNSELL 2.53Y 6.70/ 4.60, GLOSS 20,	0.028 GA
HA3104A17	5/16-18X13.250 T-BLT/OHIO	4.000 EA
87BK4120EQF	35LB-FT 230/460V STD BK W/SIDE RELEASE L	1.000 EA
LB1404	BRAKE CONNECTION LABEL	1.000 EA
LC0005E01	CONN.DIA./WARNING LABEL (LC0005/LB1119N)	1.000 EA
NP1259L	ALUM SUPER-E UL CSA-EEV CC NEMA PREMIUM	1.000 EA
37PA1039	PALLET PACK GROUP, BLANK PK1148	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 5/18	1.000 EA

AC Induction Motor Performance Data

Record # 54275 - Typical performance - not guaranteed values

Winding: 37WGR872-R001	Type: 3738M	Enclosure: TEFC
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Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	7.5			Full Load Torque	22.2 LB-FT
Volts	230/460			Start Configuration	direct on line
Full Load Amps	19/9.5			Breakdown Torque	70.9 LB-FT
R.P.M.	1770			Pull-up Torque	32.6 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	43 LB-FT
NEMA Design Code	A	KVA Code	J	Starting Current	70.9 A
Service Factor (S.F.)	1.15			No-load Current	4.31 A
NEMA Nom. Eff.	91.7	Power Factor	80	Line-line Res. @ 25°C	1.41 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	63°C
S.F. Amps				Temp. Rise @ S.F. Load	77°C
				Locked-rotor Power Factor	37.2
				Rotor inertia	0.934 LB-FT ²

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	42	64	75	80	83	84	82
Efficiency	87.1	91.6	92	92	91.1	89.8	91.5
Speed	1793	1786	1778	1770	1760	1750	1764
Line amperes	4.83	6.02	7.6	9.5	11.6	13.9	10.8

Performance Graph at 460V, 60Hz, 7.5HP Typical performance - Not guaranteed values





