



Product Information Packet

WCM3710T

7.5HP, 1770RPM, 3PH, 60HZ, 213TCZ, 3732M, TEFC

Part Detail							
Revision:	F	Status:	INA/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	37WGS150	CD Diagram:	CD0005	Mfg Plant:	
Mech. Spec:	37N046	Layout:	37LYN046	Poles:	04	Created Date:	06-23-2010
Base:	RG	Eff. Date:	03-08-2016	Leads:	9#14		

Specs			
Catalog Number:	WCM3710T	Insulation Class:	F
Enclosure:	TEFC	Inverter Code:	Not Inverter
Frame:	213TCZ	KVA Code:	K
Frame Material:	Steel	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:	460.0 V @ 60 HZ	Motor Lead Exit:	Ko Box
	230.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
	208.0 V @ 60 HZ	Motor Type:	3731M
XP Division:	Not Applicable	Mounting Arrangement:	F1
Agency Approvals:	CSA	Power Factor:	77
	UR	Product Family:	General Purpose
Auxiliary Box:	No Auxiliary Box	Pulley End Bearing Type:	Ball
Auxiliary Box Lead Termination:	None	Pulley Face Code:	C-Face
Base Indicator:	RG	Pulley Shaft Indicator:	Tapped & Key
Bearing Grease Type:	Polyrex EM (-20F +300F)	Rodent Screen:	None
Blower:	None	Shaft Extension Location:	Pulley End
Current @ Voltage:	10.100 A @ 460.0 V	Shaft Ground Indicator:	No Shaft Grounding

	20.200 A @ 230.0 V	Shaft Rotation:	Reversible
	22.000 A @ 208.0 V	Shaft Slinger Indicator:	No Slinger
Design Code:	A	Speed Code:	Single Speed
Drip Cover:	No Drip Cover	Motor Standards:	NEMA
Duty Rating:	CONT	Starting Method:	Direct on line
Electrically Isolated Bearing:	Not Electrically Isolated	Thermal Device - Bearing:	None
Feedback Device:	NO FEEDBACK	Thermal Device - Winding:	None
Front Face Code:	Standard	Vibration Sensor Indicator:	No Vibration Sensor
Front Shaft Indicator:	None	Winding Thermal 1:	None
Heater Indicator:	No Heater	Winding Thermal 2:	None

Nameplate NP1256L

CAT.NO.	WCM3710T									
SPEC.	37N046S150H1									
HP	7.5									
VOLTS	208-230/460									
AMP	22-20.2/10.1									
RPM	1770									
FRAME	213TCZ				HZ		60		PH	3
SER.F.	1.15			CODE	K	DES	A		CLASS	F
NEMA-NOM-EFF	89.5			PF	77					
RATING	40C AMB-CONT									
CC					USABLE AT 208V					
DE	6309				ODE	6206				
ENCL	TEFC			SN						

AC Induction Motor Performance Data

Record # 22653 - Typical performance - not guaranteed values

Winding: 37WGS150-R001	Type: 3732M	Enclosure: TEFC
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Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	7.5			Full Load Torque	22.14 LB-FT
Volts	208-230/460			Start Configuration	direct on line
Full Load Amps	22-20.2/10.1			Breakdown Torque	78.19 LB-FT
R.P.M.	1770			Pull-up Torque	34.99 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	48.08 LB-FT
NEMA Design Code	A	KVA Code	K	Starting Current	78.69 A
Service Factor (S.F.)	1.15			No-load Current	5.26 A
NEMA Nom. Eff.	89.5	Power Factor	77	Line-line Res. @ 25°C	1.39 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	69°C
S.F. Amps				Temp. Rise @ S.F. Load	81°C
				Locked-rotor Power Factor	38.8
				Rotor inertia	0.787 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	38	58	71	77	81	83	79
Efficiency	81.5	88.2	89.6	90	88.8	88	89.4
Speed	1792	1786	1778	1771	1762	1752	1765
Line amperes	5.74	6.79	8.35	10.08	12.2	14.39	11.4

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

BALDOR ELECTRIC COMPANY

WINDING # 37WGS150

Typical performance - not guaranteed values.

7.5 HP 3 PH 60 HZ 1770 RPM 460 V 3732M

TORQUES(LB-FT): PO=78.19 PU=34.99 LR=48.08 LRA=78.69





