

ABB BALDOR RELIANCE III

Customer information packet

EM3769T

7.5HP, 3500RPM, 3PH, 60HZ, 213T, 0724M, TEFC, F

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	213T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	7.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	NEMA PREMIUM CURUSEEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	18.400 A @ 230.0 V 9.200 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	9.2 a
Insulation Class	F

Part Detail

Revision	D
Type	AC
Mech. spec.	07H002
Base	
Status	PRD/A
Elec. spec.	07WGT514
Layout	07LYH002
Eff. date	04-29-2024
CD Diagram	CD0005
Poles	02
Leads	9#14
Proprietary	False
Created date	01-05-2021

Inverter Code	Inverter Ready
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0724M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	18.45 IN
Power Factor	84
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	1.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3500 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP3441LUA									
CAT.NO.	EM3769T								
SPEC	07H002T514G1								
HP	7.5								
VOLTS	230/460								
AMPS	18.4/9.2								
RPM	3500								
FRAME	213T		HZ	60			PH	3	
SF	1.15		CODE	H	DES	B	CLASS	F	
NEMA NOM. EFF	89.5		PF	84					
RATING	40C AMB-CONT								
CC	010A								
ENCL	TEFC		SER						
DE	6307			ODE	6206				
VPWM INVERTER READY									
CT6-60H(10:1)VT3-60H(20:1									

Accessories

Part number	Description	Multiplier
37-1304	C FACE KIT	A8

AC Induction Motor Performance Data

Record # 86050

Preliminary Data Sheet

Winding: 07WGT514-R001			Type: 0724M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		7.5	Full Load Torque		11.3 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		18.4/9.2	Breakdown Torque		42.8 LB-FT		
R.P.M.		3500	Pull-up Torque		15.3 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		20.6 LB-FT	
NEMA Design Code		B	KVA Code	H	Starting Current		62.1 A
Service Factor (S.F.)		1.15	No-load Current		3.85 A		
NEMA Nom. Eff.		89.5	Power Factor	84	Line-line Res. @ 25°C		1.57 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		62°C
S.F. Amps		20.6/10.3	Temp. Rise @ S.F. Load		82°C		
			Locked-rotor Power Factor		43		
			Rotor inertia		0.219 lb-ft²		

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	47	69	79	84	87	88	86
Efficiency	83.9	89.3	90.1	89.7	88.6	87	89.1
Speed	3575	3552	3526	3498	3468	3435	3483
Line amperes	4.39	5.65	7.32	9.24	11.4	13.7	10.3

ABB Motors and Mechanical Inc.

WINDING # 07WGT514

Typical performance - not guaranteed values.

7.5 HP 3 PH 60 HZ 3500 RPM 460 V 0724M

TORQUES (LB-FT): PO=42.8 PU=15.3 LR=20.6 LRA=62.1





