

ABB BALDOR RELIANCE III

Customer information packet

CEDM3708T

5HP, 1165RPM, 3PH, 60HZ, 215TC, 3752M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	215TC
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	5.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	CCSA US CSA EEV NEMA PREMIUM NEMA_PREMIUM UR
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
Constant Torque Speed Range	6
Current @ Voltage	7.200 A @ 460.0 V 15.600 A @ 208.0 V 14.400 A @ 230.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated

Part Detail

Revision	F
Type	AC
Mech. spec.	37N854
Base	
Status	PRD/A
Elec. spec.	37WGQ067
Layout	37LYN854
Eff. date	07-28-2025
CD Diagram	CD0005
Poles	06
Leads	9#14 Y
Proprietary	False
Created date	09-21-2017

Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	7.2 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3752M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	21.26 IN
Power Factor	71
Product Family	Dirty Duty Plus
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	1.375 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1165 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

NP3504											
CAT NO	CEDM3708T										
SPEC.	37N854Q067G1					ENCL	TEFC				
FRAME	215TC	HP	5								
VOLTS	230/460										
FLA	14.4/7.2				I.P.	56					
RPM	1165	RPM MAX				1800					
HZ	60	PH	3	CLASS			F				
SER.F.	1.15	DES	A	CC	010A						
NEMA-NOM-EFF	89.5										
RATING	40C AMB-CONT										
DE BRG	6307	ODE BRG				6206					
GREASE	POLYREX EM										
INV.TYPE		C HP FR			60	C HP TO		90			
CT HZ FROM	6	CT HZ TO			60	VT HZ FROM		6	VT HZ TO		60
SER.NO	SFA 16.66/8.33										

AC Induction Motor Performance Data

Record # 67641

Typical performance - not guaranteed values

Winding: 37WGQ067-R001			Type: 3752M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		5	Full Load Torque		22.48 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		14.4/7.2	Breakdown Torque		80.1 LB-FT		
R.P.M.		1165	Pull-up Torque		51.2 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		55.8 LB-FT	
NEMA Design Code		A	KVA Code	K	Starting Current		54.4 A
Service Factor (S.F.)		1.15	No-load Current		3.98 A		
NEMA Nom. Eff.		89.5	Power Factor	71	Line-line Res. @ 25°C		3.6757 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		59°C
S.F. Amps					Temp. Rise @ S.F. Load		73°C
					Locked-rotor Power Factor		21.9

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	33	52	64	70	74	76	72
Efficiency	84.4	89.3	90.2	89.7	88.6	87.1	89
Speed	1191.6	1183.1	1174.9	1164.8	1154	1141.3	1158
Line amperes	4.28	5.07	6.08	7.39	8.87	10.6	8.28

ABB Motors and Mechanical Inc.

WINDING # 37WGQ067

Typical performance - not guaranteed values.

5 HP 3 PH 60 HZ 1165 RPM 460 V 3752M

TORQUES (LB-FT): PO=80.1 PU=51.2 LR=55.8 LRA=54.4





