

ABB BALDOR RELIANCE III

Customer information packet

CEWWDM3559T

3HP, 3450RPM, 3PH, 60HZ, 145TC, 3532M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	145TC
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	3.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	208.0 V @ 60 HZ 230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA EEV CSA 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
Current @ Voltage	3.600 A @ 460.0 V 7.200 A @ 230.0 V 7.900 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard

Part Detail

Revision	D
Type	AC
Mech. spec.	35E1678
Base	
Status	INA/A
Elec. spec.	35WGQ060
Layout	35LYE1678
Eff. date	07-27-2016
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	09-16-2013

Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	3.6 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3532M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	14.17 IN
Power Factor	92
Product Family	Super White Washdown
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	0.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	3450 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

NP1669L									
CAT.NO.	CEWWDM3559T								
SPEC.	35E1678Q060G1								
HP	3								
VOLTS	208-230/460								
AMP	7.9-7.2/3.6								
RPM	3450								
FRAME	145TC		HZ	60			PH	3	
SER.F.	1.15	CODE	L	DES	B	CLASS	F		
NEMA-NOM-EFF	86.5	PF	92						
RATING	40C AMB-CONT								
CC	010A								
DE	6205		ODE	6205					
ENCL	TEFC	SN							
BLANK									

AC Induction Motor Performance Data

Record # 37570

Typical performance - not guaranteed values

Winding: 35WGQ060-R001			Type: 3532M		Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		3	Full Load Torque		4.61 LB-FT	
Volts		208-230/460	Start Configuration		direct on line	
Full Load Amps		7.9-7.2/3.6	Breakdown Torque		19.9 LB-FT	
R.P.M.		3450	Pull-up Torque		11.9 LB-FT	
Hz	60 Phase	3	Locked-rotor Torque		18.8 LB-FT	
NEMA Design Code		B KVA Code	L	Starting Current		33.1 A
Service Factor (S.F.)		1.15	No-load Current		1.17 A	
NEMA Nom. Eff.		86.5 Power Factor	92	Line-line Res. @ 25°C		4.7916 Ω
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		57°C	
S.F. Amps			Temp. Rise @ S.F. Load		72°C	
			Locked-rotor Power Factor		47	
			Rotor inertia		0.0885 LB-FT2	

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	62	81	88	92	93	94	93
Efficiency	83.7	87.9	88.2	87.2	85.6	83.5	86.2
Speed	3562.2	3530.9	3497.8	3462.5	3420.8	3375.4	3437
Line amperes	1.5	2.08	2.79	3.57	4.46	5.44	4.1

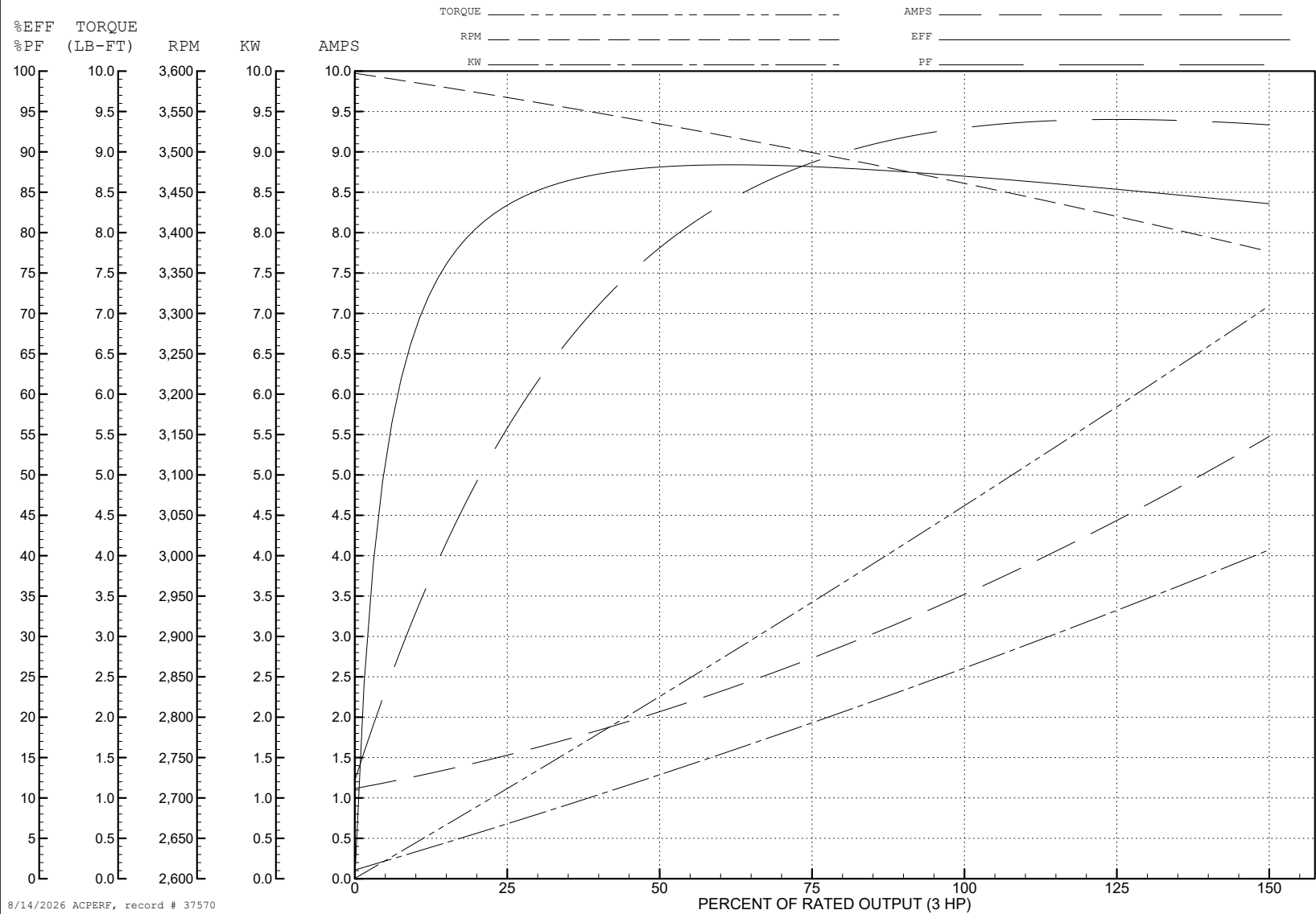
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WINDING # 35WGQ060

Typical performance - not guaranteed values.

3 HP 3 PH 60 HZ 3450 RPM 460 V 3532M

TORQUES (LB-FT): PO=19.9 PU=11.9 LR=18.8 LRA=33.1



AC Induction Motor Performance Data

Record # 117003

Typical performance - not guaranteed values

Winding: 35WGQ060-R001			Type: 3532M		Enclosure: TEFC	
Nameplate Data			208 V, 60 Hz: Single Voltage Motor			
Rated Output (HP)		3	Full Load Torque		4.65 LB-FT	
Volts		208-230/460	Start Configuration		direct on line	
Full Load Amps		7.9-7.2/3.6	Breakdown Torque		16 LB-FT	
R.P.M.		3450	Pull-up Torque		9.4 LB-FT	
Hz		60	Locked-rotor Torque		14.9 LB-FT	
NEMA Design Code		B	Starting Current		59 A	
Service Factor (S.F.)		1.15	No-load Current		1.99 A	
NEMA Nom. Eff.		86.5	Power Factor		92	
Rating - Duty		40C	Temp. Rise @ Rated Load		60°C	
S.F. Amps			Temp. Rise @ S.F. Load		75°C	
			Locked-rotor Power Factor		47.1	
			Rotor inertia		0.0885 lb-ft²	

Load Characteristics 208 V, 60 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	71	87	92	94	94	94	94
Efficiency	86.1	89	88.3	86.6	84.3	81.4	85.2
Speed	3556	3518	3478	3433	3381	3320	3402
Line amperes	2.82	4.23	5.91	7.77	9.89	12.3	9.04

ABB Motors and Mechanical Inc.

WINDING # 35WGQ060

Typical performance - not guaranteed values.

3 HP 3 PH 60 HZ 3450 RPM 208 V 3532M

TORQUES (LB-FT): PO=16 PU=9.4 LR=14.9 LRA=59

