

ABB BALDOR RELIANCE III

Customer information packet

CESSWDM3713T

15HP, 3500RPM, 3PH, 60HZ, 215TC, 3756M, TEFC,

Class -

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	215TC
Frame Material	Stainless Steel
Frequency	60.00 Hz
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	15.000 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	CSA UR NEMA PREMIUM
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	37.000 A @ 208.0 V 34.000 A @ 230.0 V 17.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	17.0 a

Part Detail

Revision	F
Type	AC
Mech. spec.	37J639
Base	
Status	PRD/A
Elec. spec.	37WGR555
Layout	37LYJ639
Eff. date	12-18-2024
CD Diagram	CD0180
Poles	02
Leads	9#14
Proprietary	False
Created date	01-06-2021

Insulation Class	H
Inverter Code	Not Inverter
KVA Code	L
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3756M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	21.66 IN
Power Factor	90
Product Family	Wash Down All Stainless Steel
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 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

NP1953C02									
CAT.NO.	CESSWDM3713T								
SPEC.	37J639R555G1								
HP	15								
VOLTS	230/460								
AMP	34/17								
RPM	3500								
FRAME	215TC			HZ	60		PH	3	
SER.F.	1.15	CODE	L	DES	A	CLASS	H		
NEMA-NOM-EFF	91.7		PF	90					
RATING	40C AMB-CONT								
CC	010A		USABLE AT 208V					N/A	
DE	6307		ODE	6206					
ENCL	TEFC	SN							
	4:1CT 20:1VT								

AC Induction Motor Performance Data

Record # 43530

Typical performance - not guaranteed values

Winding: 37WGR555-R001			Type: 3756M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		15	Full Load Torque		22.4 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		34/17	Breakdown Torque		129 LB-FT		
R.P.M.		3500	Pull-up Torque		62.1 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		81.4 LB-FT	
NEMA Design Code		A	KVA Code	Starting Current		187 A	
Service Factor (S.F.)		1.15	No-load Current		5.43 A		
NEMA Nom. Eff.		91.7	Power Factor	Line-line Res. @ 25°C		0.409 Ω	
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		78°C
S.F. Amps					Temp. Rise @ S.F. Load		96°C
					Rotor inertia		0.512 LB-FT2

Load Characteristics 460 V, 60 Hz, 15 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	59	82	87	90	92	93	91
Efficiency	88	91.7	92.2	91.8	91.1	90	91.4
Speed	3576	3551	3525	3499	3470	3437	3482
Line amperes	6.71	9.36	13.1	16.9	20.8	25.3	19.2

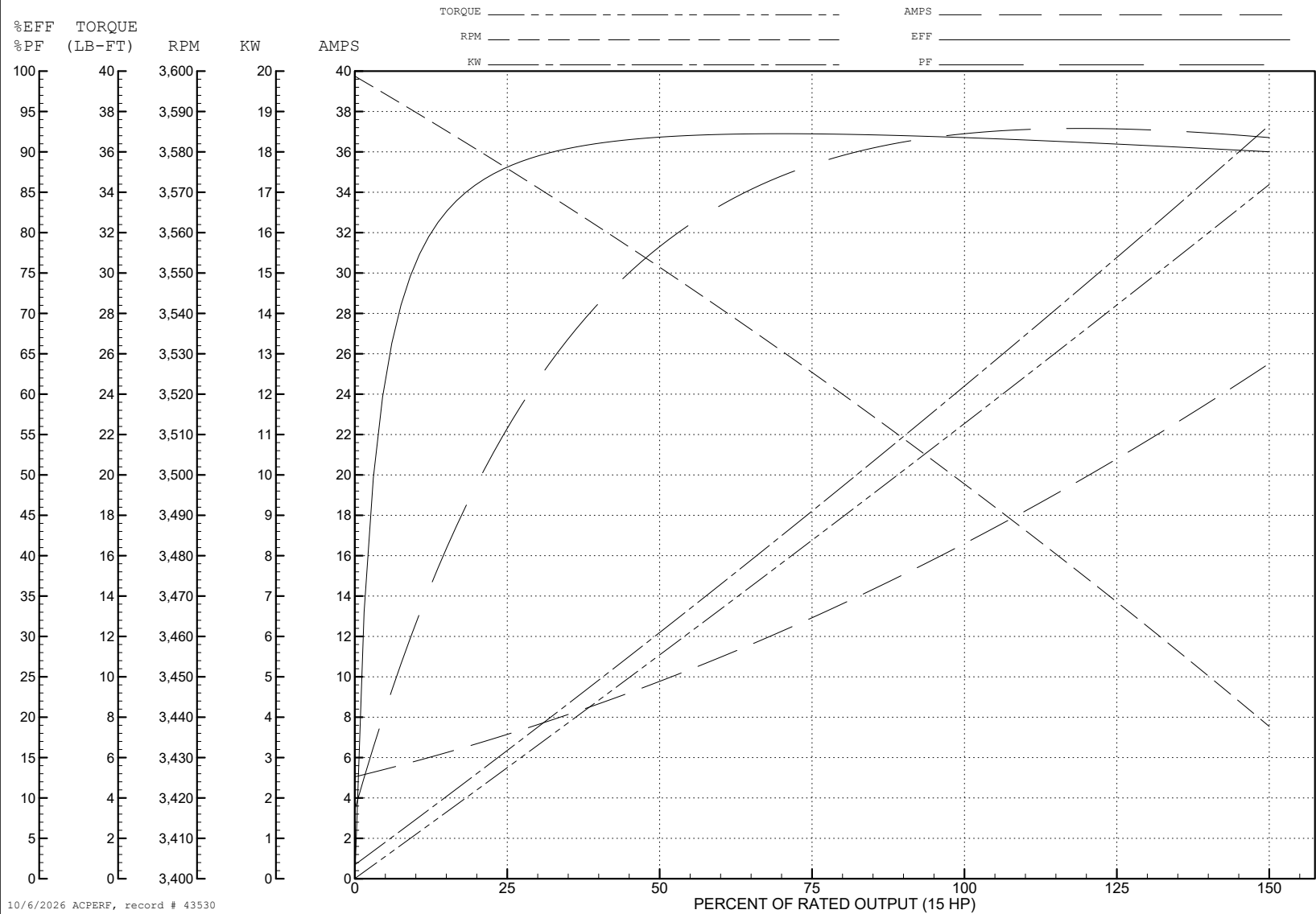
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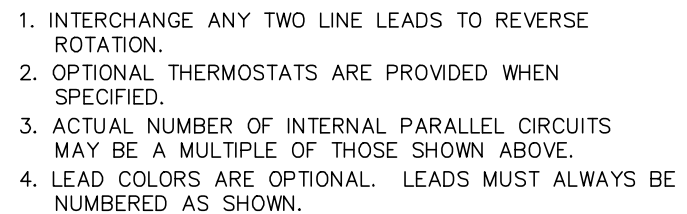
WINDING # 37WGR555

Typical performance - not guaranteed values.

15 HP 3 PH 60 HZ 3500 RPM 460 V 3756M

TORQUES (LB-FT): PO=129 PU=62.1 LR=81.4 LRA=187



SH 1 of 1