

ABB BALDOR RELIANCE III

Customer information packet

CEWDM23994T

15HP, 3500RPM, 3PH, 60HZ, 254TC, 3752M, TEFC, F

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	254TC
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	15.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	CSA CSA EEV 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	33.200 A @ 230.0 V 36.400 A @ 208.0 V 16.600 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	AE
Type	AC
Mech. spec.	37H882
Base	
Status	PRD/A
Elec. spec.	37WGT381
Layout	37LYH882
Eff. date	04-30-2025
CD Diagram	CD0005
Poles	02
Leads	9#12
Proprietary	False
Created date	01-01-0001

Heater Indicator	No Heater
High Voltage Full Load Amps	16.6 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 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3752M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	21.89 IN
Power Factor	90
Product Family	Wash Down
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft 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

NP1669L									
CAT.NO.	CEWDM23994T								
SPEC.	37H882T381G1								
HP	15								
VOLTS	230/460								
AMP	33.2/16.6								
RPM	3500								
FRAME	254TC		HZ	60			PH	3	
SER.F.	1.15	CODE	K	DES	A	CLASS	F		
NEMA-NOM-EFF	91	PF	90						
RATING	40C AMB-CONT								
CC	010A								
DE	6309		ODE	6206					
ENCL	TEFC	SN							
BLANK	20:1CT, 20:1VT								

AC Induction Motor Performance Data

Record # 33531

Typical performance - not guaranteed values

Winding: 37WGT381-R001			Type: 3752M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		15	Full Load Torque		22.5 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		33.2/16.6	Breakdown Torque		104 LB-FT		
R.P.M.		3500	Pull-up Torque		56.8 LB-FT		
Hz	60 Phase	3	Locked-rotor Torque		63.6 LB-FT		
NEMA Design Code		A	KVA Code		K	Starting Current	161 A
Service Factor (S.F.)		1.15	No-load Current		4.43 A		
NEMA Nom. Eff.		91	Power Factor		90	Line-line Res. @ 25°C	0.51091 Ω
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		70°C		
S.F. Amps			Temp. Rise @ S.F. Load		87°C		
			Locked-rotor Power Factor		31		
			Rotor inertia		0.475 LB-FT2		

Load Characteristics 460 V, 60 Hz, 15 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	69	87	92	93	94	94	94
Efficiency	88.8	92	92.1	91.5	90.4	89	90.8
Speed	3573.5	3549.1	3521.8	3495.3	3464.8	3432.8	3477
Line amperes	5.91	8.94	12.6	16.5	20.6	25	19

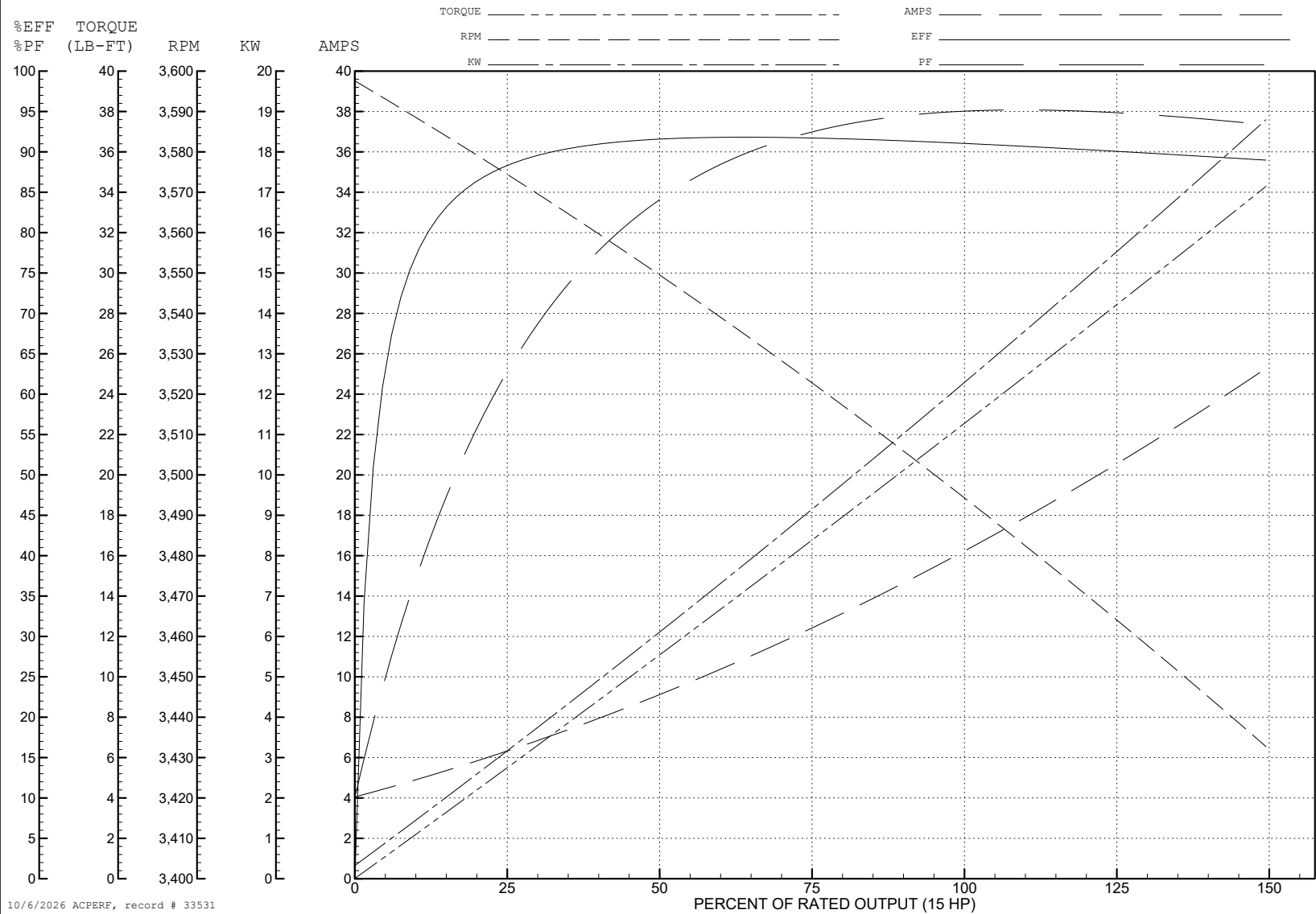
ABB Motors and Mechanical Inc.

WINDING # 37WGT381

Typical performance - not guaranteed values.

15 HP 3 PH 60 HZ 3500 RPM 460 V 3752M

TORQUES (LB-FT): PO=104 PU=56.8 LR=63.6 LRA=161



AC Induction Motor Performance Data

Record # 35776

Typical performance - not guaranteed values

Winding: 37WGT381-R007			Type: 3752M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		15	Full Load Torque		22.5 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		33.2/16.6	Breakdown Torque		104 LB-FT		
R.P.M.		3500	Pull-up Torque		56.8 LB-FT		
Hz	60 Phase	3	Locked-rotor Torque		63.6 LB-FT		
NEMA Design Code		A	KVA Code	K	Starting Current		161 A
Service Factor (S.F.)		1.15	No-load Current		4.43 A		
NEMA Nom. Eff.		91	Power Factor	90	Line-line Res. @ 25°C		0.479 Ω
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		70°C		
S.F. Amps			Temp. Rise @ S.F. Load		87°C		
			Locked-rotor Power Factor		31		
			Rotor inertia		0.475 LB-FT2		

Load Characteristics 460 V, 60 Hz, 15 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	69	87	92	93	94	94	94
Efficiency	88.3	91.5	91.8	91.2	90.1	89	90.5
Speed	3574	3549	3522	3495	3465	3433	3477
Line amperes	5.91	8.94	12.6	16.5	20.6	25	19

ABB Motors and Mechanical Inc.

WINDING # 37WGT381

Typical performance - not guaranteed values.

15 HP 3 PH 60 HZ 3500 RPM 460 V 3752M

TORQUES (LB-FT): PO=104 PU=56.8 LR=63.6 LRA=161

