

**BALDOR® • RELIANCE** 

**Product Information Packet**

**CESSWDM23994T**

**15HP,3520RPM,3PH,60HZ,254TC,3952M,TEFC,F**

Part Detail							
Revision:	AN	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	39WGX633	CD Diagram:	CD0005	Mfg Plant:	
Mech. Spec:	39E119	Layout:	39LYE119	Poles:	02	Created Date:	03-18-2008
Base:	RG	Eff. Date:	06-21-2022	Leads:	9#12		

Specs			
Catalog Number:	CESSWDM23994T	Heater Indicator:	No Heater
Enclosure:	TEFC	Insulation Class:	F
Frame:	254TC	Inverter Code:	Inverter Ready
Frame Material:	Stainless Steel	KVA Code:	J
Motor Letter Type:	Three Phase	Lifting Lugs:	Standard Lifting Lugs
Output @ Frequency:	15.000 HP @ 60 HZ	Locked Bearing Indicator:	Locked Bearing
Synchronous Speed @ Frequency:	3600 RPM @ 60 HZ	Motor Lead Quantity/Wire Size:	9 @ 12 AWG
Voltage @ Frequency:	460.0 V @ 60 HZ	Motor Lead Exit:	Ko Box
	230.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
XP Class and Group:	None	Motor Type:	3952M
XP Division:	Not Applicable	Mounting Arrangement:	F1
Agency Approvals:	CSA	Power Factor:	92
	UR	Product Family:	Wash Down All Stainless Steel
Auxillary Box:	No Auxillary Box	Pulley End Bearing Type:	Sealed Bearing
Auxillary Box Lead Termination:	None	Pulley Face Code:	Standard
Base Indicator:	Rigid	Pulley Shaft Indicator:	Standard
Bearing Grease Type:	Polyrex EM (-20F +300F)	Rodent Screen:	None
Blower:	None	Shaft Extension Location:	Pulley End

<b>Current @ Voltage:</b>	33.000 A @ 230.0 V	<b>Shaft Ground Indicator:</b>	No Shaft Grounding
	36.000 A @ 208.0 V	<b>Shaft Rotation:</b>	Reversible
	16.500 A @ 460.0 V	<b>Shaft Slinger Indicator:</b>	Shaft Slinger
<b>Design Code:</b>	A	<b>Speed Code:</b>	Single Speed
<b>Drip Cover:</b>	No Drip Cover	<b>Motor Standards:</b>	NEMA
<b>Duty Rating:</b>	CONT	<b>Starting Method:</b>	Direct on line
<b>Electrically Isolated Bearing:</b>	Not Electrically Isolated	<b>Thermal Device - Bearing:</b>	None
<b>Feedback Device:</b>	NO FEEDBACK	<b>Thermal Device - Winding:</b>	None
<b>Front Face Code:</b>	Standard	<b>Vibration Sensor Indicator:</b>	No Vibration Sensor
<b>Front Shaft Indicator:</b>	None	<b>Winding Thermal 1:</b>	None
		<b>Winding Thermal 2:</b>	None

<b>Nameplate NP1953D01</b>										
<b>CAT.NO.</b>	CESSWDM23994T									
<b>SPEC.</b>	39E119X633G1									
<b>HP</b>	15									
<b>VOLTS</b>	230/460									
<b>AMP</b>	33/16.5									
<b>RPM</b>	3520									
<b>FRAME</b>	254TC				<b>HZ</b>	60			<b>PH</b>	3
<b>SER.F.</b>	1.15		<b>CODE</b>	J	<b>DES</b>	A		<b>CLASS</b>	F	
<b>NEMA-NOM-EFF</b>	91			<b>PF</b>	92					
<b>RATING</b>	40C AMB-CONT									
<b>CC</b>	010A				<b>USABLE AT 208V</b>			36		
<b>DE</b>	6309			<b>ODE</b>	6208					
<b>ENCL</b>	TEFC		<b>SN</b>							
	2:1 CT/10:1 VT									

Parts List		
Part Number	Description	Quantity
SA169249	SA 39E119X633G1	1.000 EA
RA157525	RA 39E119X633G1	1.000 EA
09FN3001C01	EXTERNAL FAN, PLASTIC (COMES W/SCREW FRO	1.000 EA
WD1000B17	T&B CX35TN OR L35P TERMINAL LUG	1.000 EA
11XW1032S06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 EA
39EP1901A01	S.S. FR ENDPLATE, MACH	1.000 EA
HW5100A08	W3118-035 WVY WSHR (WB)	1.000 EA
HW4606A16	PROTECH/SEAL (WDE-1575-2125-BG38)	1.000 EA
39EP1903A01	S.S. C-FACE PU ENDPLATE, MACH	1.000 EA
10XN2520S28	1/4-20X 1 3/4 HEX HD SS X	4.000 EA
HW4606A15	PROTECH/SEAL (WDE-1688-2250-BG37)	1.000 EA
HA3154S06	THRUBOLT STUD 3/8-16 X 16.875 SS	4.000 EA
XY3816S12	3/8-16 HEX FINISHED NUT SS	8.000 EA
39FH4004A01	304 SS FANCOVER SPUN W/SLOTS & MTG(POLIS	1.000 EA
10XN2520S08	SCREW, 1/4-20 X 1/2 HHCS SS	3.000 EA
HW1001S25	WASHER, 1/4 SPLT LK, STAINLESS STEEL	3.000 EA
09CB1505A01	S.S. LIPPED KOBX LID	1.000 EA
12GS1002	GASKET, CONDUIT BOX LID, NEOP	1.000 EA
10XN3118S12	5/16-18 X 3/4 HEX HEAD CAP, STAINLESS ST	2.000 EA
HW1001S31	WASHER, 5/16 SPLT LK, STAINLESS STEEL	2.000 EA
HW2502G25	#303 SS,SQ KEY 3/8 X 2.880	1.000 EA
MJ5002A01	SILICON RUBBER SEALANT, 732CL 10.3 OZ TU	0.031 EA
MJ5002A02	NON-CORROSIVE SILICONE, DOW 748, 10.3 OZ	0.031 EA
HA5027A01	HA4066A01 T-DRAIN X2 BAGGED	1.000 EA

<b>Parts List (continued)</b>		
<b>Part Number</b>	<b>Description</b>	<b>Quantity</b>
HW4032A01	BLACK DRAIN PLUG FOR WASH DOWN MOTORS	3.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (2200bx) 4/22	1.000 EA
LD7020D09	LEAD SET, 12AWG, 9 LEAD, 20" LONG LEADS	1.000 EA
MJ1000A02	GREASE, POLYREX EM EXXON	0.030 LB
HW4032A01	BLACK DRAIN PLUG FOR WASH DOWN MOTORS	3.000 EA
HW2502F08	KEY, 5/16 SQ X .875 303 SS	1.000 EA
40PA1000	PACKAGING GROUP	1.000 EA

**AC Induction Motor Performance Data**

Record # 35516

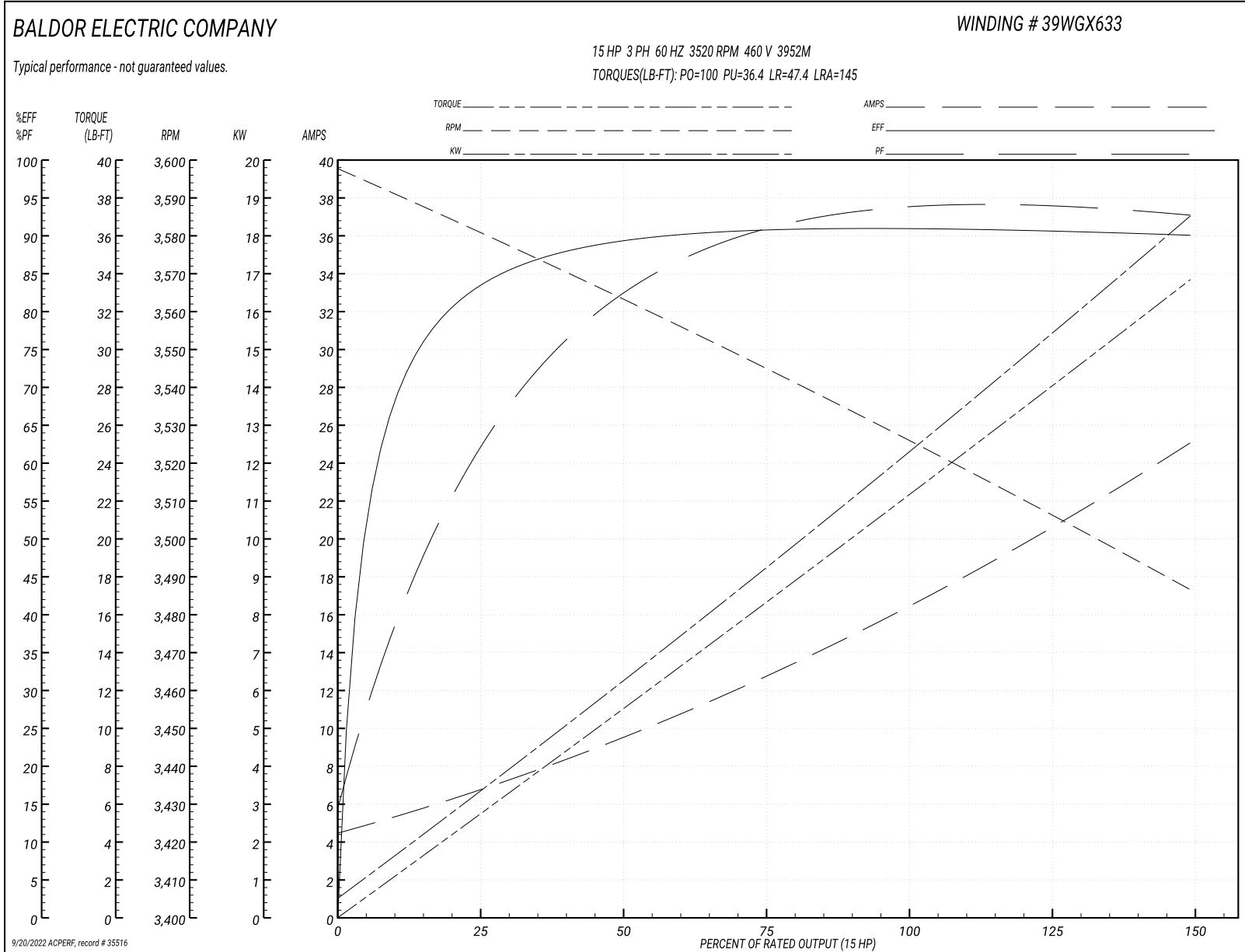
Typical performance - not guaranteed values

<b>Winding: 39WGX633-R002</b>		<b>Type: 3952M</b>		<b>Enclosure: TEFC</b>	
<b>Nameplate Data</b>			<b>460 V, 60 Hz: High Voltage Connection</b>		
<b>Rated Output (HP)</b>	15	<b>Full Load Torque</b>	22.1 LB-FT		
<b>Volts</b>	230/460	<b>Start Configuration</b>	direct on line		
<b>Full Load Amps</b>	33/16.5	<b>Breakdown Torque</b>	100 LB-FT		
<b>R.P.M.</b>	3520	<b>Pull-up Torque</b>	36.4 LB-FT		
<b>Hz</b>	60 <b>Phase</b>	3	<b>Locked-rotor Torque</b>	47.4 LB-FT	
<b>NEMA Design Code</b>	A <b>KVA Code</b>	J	<b>Starting Current</b>	145 A	
<b>Service Factor (S.F.)</b>	1.15		<b>No-load Current</b>	4.77 A	
<b>NEMA Nom. Eff.</b>	91 <b>Power Factor</b>	92	<b>Line-line Res. @ 25°C</b>	0.467 Ω	
<b>Rating - Duty</b>	40C AMB-CONT		<b>Temp. Rise @ Rated Load</b>	73°C	
<b>S.F. Amps</b>			<b>Temp. Rise @ S.F. Load</b>	87°C	
			<b>Locked-rotor Power Factor</b>	27.2	
			<b>Rotor inertia</b>	1.33 LB-FT <sup>2</sup>	

**Load Characteristics 460 V, 60 Hz, 15 HP**

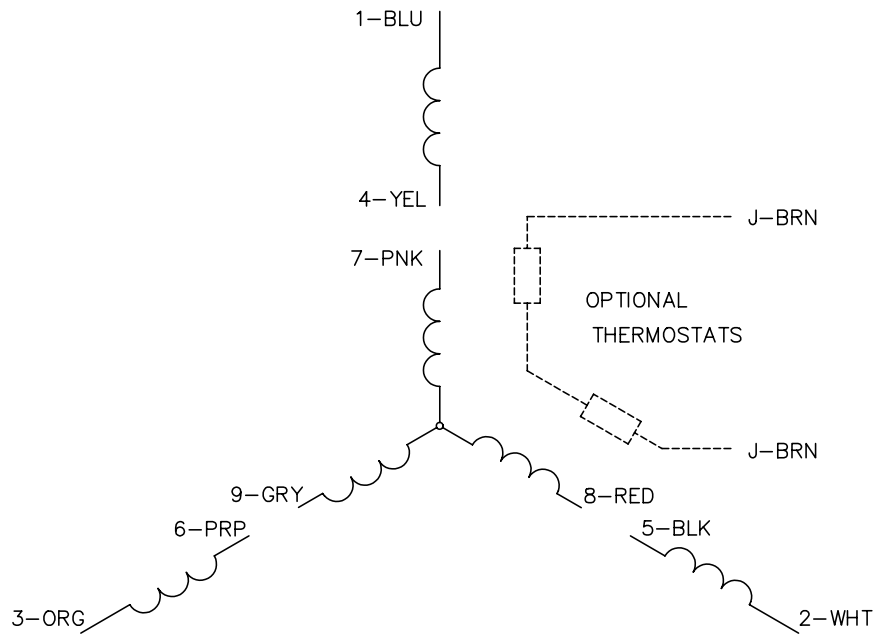
<b>% of Rated Load</b>	<b>25</b>	<b>50</b>	<b>75</b>	<b>100</b>	<b>125</b>	<b>150</b>	<b>S.F.</b>
<b>Power Factor</b>	66	84	90	92	93	93	93
<b>Efficiency</b>	83.9	89.6	91.1	91.3	90.8	90.1	91
<b>Speed</b>	3579	3563	3546	3528	3507	3486	3515
<b>Line amperes</b>	6.39	9.25	12.8	16.5	20.6	24.9	19

Performance Graph at 460V, 60Hz, 15.0HP Typical performance - Not guaranteed values

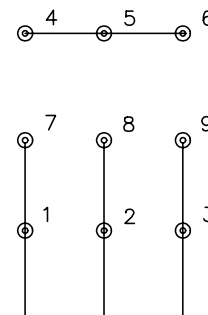




CD0005

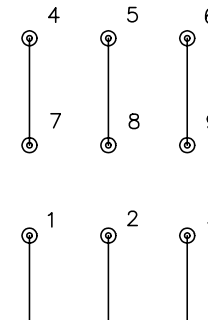


LOW VOLTAGE  
(2Y)



LINE

HIGH VOLTAGE  
(1Y)



LINE

NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
90000		FILE: AAA00005140	MDL: -
		MTL: -	

**BALDOR ELECTRIC Co.**

3PH, DV, 9 LEADS

CD0005

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