

# PRODUCT INFORMATION PACKET

Model No: 143TTFR16070  
Catalog No: C230B  
1,1800,TEFC,143TC,3/60/575  
Totally Enclosed Fan Cooled (TEFC)



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### Nameplate Specifications

Output HP	<b>1 Hp</b>	Output KW	<b>0.75 kW</b>
Frequency	<b>60 Hz</b>	Voltage	<b>575 V</b>
Current	<b>1.3 A</b>	Speed	<b>1765 rpm</b>
Service Factor	<b>1.15</b>	Phase	<b>3</b>
Efficiency	<b>85.5 %</b>	Duty	<b>Continuous</b>
Insulation Class	<b>B</b>	Design Code	<b>A</b>
KVA Code	<b>P</b>	Frame	<b>143TC</b>
Enclosure	<b>Totally Enclosed Fan Cooled</b>	Overload Protector	<b>No</b>
Ambient Temperature	<b>40 °C</b>	Drive End Bearing Size	<b>6205</b>
Opp Drive End Bearing Size	<b>6203</b>	UL	<b>Recognized</b>
CSA	<b>Y</b>	CE	<b>Y</b>
IP Code	<b>43</b>		

### Technical Specifications

Electrical Type	<b>Squirrel Cage Induction Run</b>	Starting Method	<b>Across The Line</b>
Poles	<b>4</b>	Rotation	<b>Reversible</b>
Mounting	<b>Round</b>	Motor Orientation	<b>Horizontal</b>
Drive End Bearing	<b>Ball</b>	Opp Drive End Bearing	<b>Ball</b>
Frame Material	<b>Rolled Steel</b>	Shaft Type	<b>T</b>
Overall Length	<b>14.21 in</b>	Frame Length	<b>9.15 in</b>
Shaft Diameter	<b>0.875 in</b>	Shaft Extension	<b>1.96 in</b>
Assembly/Box Mounting	<b>F1 Only</b>		
Outline Drawing	<b>OL56100149-001</b>	Connection Diagram	<b>CDTS112</b>

4

3

Uncontrolled Copy

2

1

001

IF MOTOR HAS  
6 LEADS

A- 9806 DECAL

TERMINAL BLOCK WHEN SPECIFIED

VIEW OF TERMINAL END

CCW HIGH VOLTAGE

NOTES:

1. TO REVERSE ROTATION, INTERCHANGE ANY TWO LINE CONNECTIONS TO L1, L2, OR L3.
2. CONNECTION DIAGRAM-NAMEPLATE: DD10040-001.

DRAWING REVISION A	REVISION BY G. RODRIGUEZ	DATE 03-20-2018
ECO ECO-0142578	APPROVED BY J. A. MORENO	DATE 03-20-2018
ECO DESCRIPTION <b>NEW RELEASE</b>		
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TOLERANCES UNLESS OTHERWISE SPECIFIED:		
DEC.	INCH	mm
-X	+0.1	[+2.5]
.XX	+0.01	[+0.25]
.XXX	+0.005	[+0.127]
.XXXX	+0.0005	[+0.0127]
REMOVE BURRS & BREAK SHARP		
EDGES: .003/.015 [.076/.381]		
CORNER FILLETS: .02 [.51]		
MACHINED SURFACES: 125/3.2		
mm SHOWN IN [BRACKETS]		

DRAWN BY G. RODRIGUEZ	DATE 03-20-2018
APPROVED BY J. A. MORENO	DATE 03-20-2018
REFERENCE SKT52A105383CA	THIRD ANGLE PROJECTION

Regal Beloit America, Inc.	
DESCRIPTION <b>CONN DIAGRAM-EXTERNAL</b>	
MATERIAL	PROCESS/FINISH
SIZE <b>B</b>	DRAWING NUMBER <b>CDTS112</b>
SHEET 1 OF 1	

4

3

2

1

3 of 5



Data Sheet

Date: 19-06-2017  
 Customer: \_\_\_\_\_  
 Attention: \_\_\_\_\_  
 Submitted by: FAREEDA DUDEKULA



143TFR16070

Submittal

Data @ 575 V

Motor Load Data

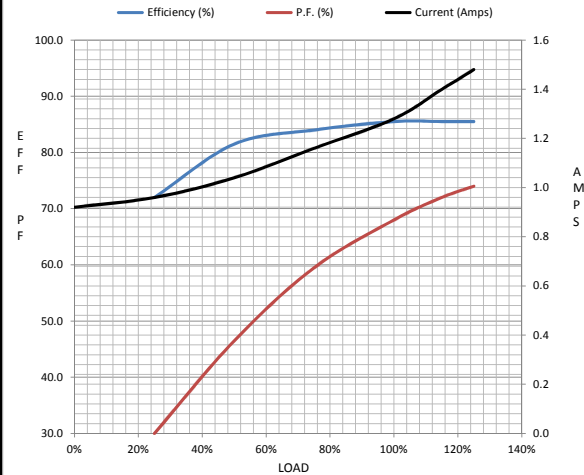
Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	0.92	0.96	1.04	1.16	1.28	1.40	1.48	13.6
Torque (ft-lb)	0.00	0.75	1.50	2.25	3.0	3.5	3.8	13.7
RPM	1800	1790	1785	1775	1765	1,760	1755	0
Efficiency (%)		72.0	81.5	84.0	85.5	85.5	85.5	
P.F. (%)	7.5	30.0	46.5	59.5	68.0	72.0	74.0	69.5

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	115	1270	1765	1800
Current (Amps)	13.6	12.8	8.8	1.28	0.92
Torque (ft-lb)	13.7	12.5	16.8	3.0	0.00

Information Block

HP	1.0			
Sync. RPM	1800			
Frame	143			
Enclosure	TEFC			
Construction	TFR			
Voltage	575 V			
Frequency	60 Hz			
Design	A			
LR Code letter	P			
Service Factor	1.15			
Temp Rise @ FL	30 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	1,000 feet			
Rotor/Shaft wk <sup>2</sup>	0.12 Lb-Ft <sup>2</sup>			
Ref Wdg	ZT4257 FR			
Sound Pressure @ 1M	62 dBA			
VFD Rating	NONE			
Outline Dwg	OL56100149-001			
Conn. Diag	CDTS112			
Additional Specifications:				
0				
365THFS8036				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
3.7890	2.5040	4.8520	4.3320	118.5360



Speed -Torque Curve

