

DATE: January 26, 2018

# OUTLINE DIMENSIONS

MOTOR TYPE: AEHHGD

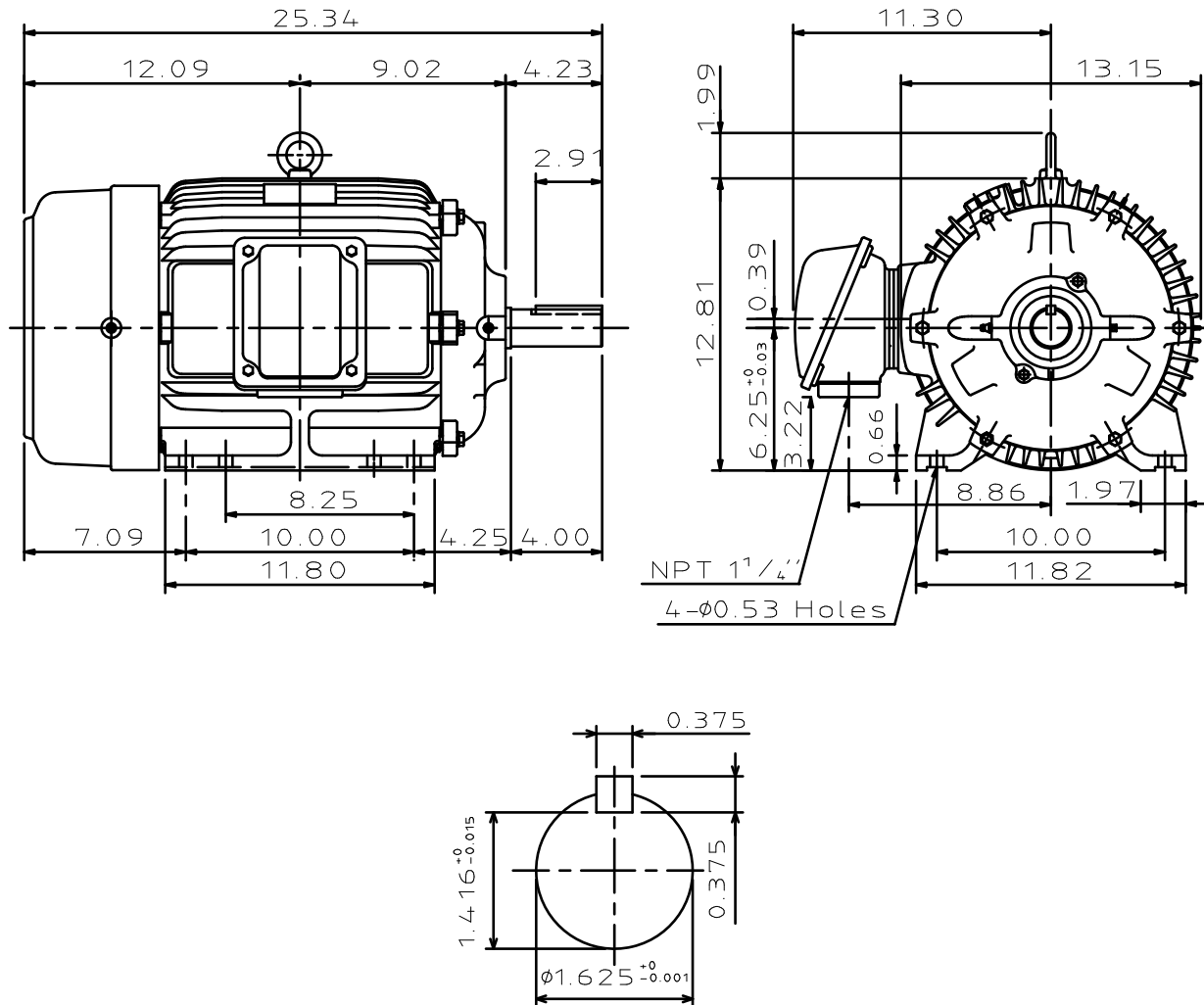
CATALOG NO. CDP0204

## 3-PHASE INDUCTION MOTOR

FRAME NO. 256T

Pole	HP	kW	Hz	VOLT	r/min
4	20	14.9	60	230/460	1800
Ins	Rating	Dimension in	Approx Weight	Bearings	
F	CONT.	inches	395 LBS.	DE6309ZZ NDE:6307ZZ	

Totally Enclosed Fan-Cooled Type. Squirrel-cage Rotor.



**NOTE:**

1. ENCLOSURE: IP55
2. SHAFT MATERIAL: SCM440 Q&T (AISI 4140 EQUIV)
3. WITH THERMISTOR: PTC 140°C x 3PCS WIRED IN MAIN TERMINAL BOX



DWG.	C.COOK	02.01.18
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**TEC Westinghouse**

DWG NO. 31057H856890

# TECO Westinghouse

ISSUED <b>6/13/2019</b>	<b>PERFORMANCE DATA</b> <b>3-PHASE INDUCTION MOTOR</b>	ENCLOSURE <b>TEFC</b>
TYPE <b>AEHHGD</b>		CATALOG# <b>CDP0204</b>

### NAMEPLATE INFORMATION

OUTPUT		POLE	FRAME SIZE	VOLTAGE	HZ	RATED AMBIENT	INS. CLASS	NEMA DESIGN	TIME RATING	SERVICE FACTOR
HP	KW									
<b>20</b>	<b>14.9</b>	<b>4</b>	<b>256T</b>	<b>230/460</b>	<b>60</b>	<b>40°C</b>	<b>F</b>	<b>C</b>	<b>CONT.</b>	<b>1.15</b>

### VARIABLE FREQUENCY DRIVE SERVICE

VARIABLE TORQUE				OHMS/PHASE EQUIVALENT WYE CIRCUIT (AT RATED OPERATING TEMPERATURE 25°C)				
HZ	HP	RPM	TORQUE (lb-ft)	R1	R2	X1	X2	X <sub>m</sub>
<b>3~60</b>	<b>0.0025~20</b>	<b>90~1800</b>	<b>0.146~59.66</b>	<b>0.1871</b>	<b>0.3098</b>	<b>1.2198</b>	<b>2.074</b>	<b>40.381</b>

CONSTANT TORQUE				CONSTANT HORSEPOWER			
HZ	HP	RPM	TORQUE (lb-ft)	HZ	HP	RPM	TORQUE (lb-ft)
<b>6~60</b>	<b>2~20</b>	<b>180~1800</b>	<b>59.66</b>	<b>60~120</b>	<b>20</b>	<b>1800~3600</b>	<b>59.66~29.83</b>

### TYPICAL PERFORMANCE

FULL LOAD RPM	EFFICIENCY				POWER FACTOR			SOUND PRESSURE LEVEL @ 3 FT Db(A)
	FULL LOAD		3/4 LOAD %	1/2 LOAD %	FULL LOAD %	3/4 LOAD %	1/2 LOAD %	
	MIN.%	NOM.%						
<b>1770</b>	<b>93</b>	<b>91.7</b>	<b>93</b>	<b>92.4</b>	<b>86</b>	<b>84</b>	<b>76</b>	<b>65</b>

CURRENTS						NEMA KVA CODE LETTER	SAFE STALL TIME IN SECONDS	
NO LOAD		FULL LOAD		LOCKED ROTOR			COLD	HOT
AT 230 VOLT	AT 460 VOLT	AT 230 VOLT	AT 460 VOLT	AT 230 VOLT	AT 460 VOLT			
<b>14.6</b>	<b>7.3</b>	<b>46.8</b>	<b>23.4</b>	<b>290.0</b>	<b>145.0</b>	<b>G</b>	<b>17</b>	<b>12</b>

TORQUE				INERTIA			ACCEL TIME (DOL)		ALLOWABLE STARTS PER HOUR	
FULL LOAD (lb-ft)	LOCKED ROTOR %FLT	PULL UP %FLT	BREAK DOWN %FLT	ROTOR WR <sup>2</sup> (lb-ft <sup>2</sup> )	NEMA LOAD WK <sup>2</sup> (lb-ft <sup>2</sup> )	MAX ALLOWABLE WK <sup>2</sup> (lb-ft <sup>2</sup> )	NEMA LOAD WK <sup>2</sup> Sec	MAX ALLOWABLE WK <sup>2</sup> Sec	COLD	HOT
<b>59.32</b>	<b>200</b>	<b>165</b>	<b>250</b>	<b>2.8712</b>	<b>99</b>	<b>234</b>	<b>4.74</b>	<b>11.01</b>	<b>2</b>	<b>1</b>

APPROVED:	<b>K. Lo</b>	DRAWING NO.	<b>31057CDP0204</b>	REVISION:	<b>1</b>
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DATE:  
December 28, 2010

# CONNECTION DIAGRAM

CATALOG NO.:  
CDP0204



**SCHEMATIC - Δ / Y CONNECTION**

## ACROSS THE LINE CONNECTION



**LINE**  
**230 VOLT CONNECTION**



**LINE**  
**460 VOLT CONNECTION**

**\*CONTACT TWMC IF YOU HAVE ANY QUESTIONS  
REGARDING THE MOTOR CONNECTION.**

**PH: 1-800-873-8326**