

AN16 To AN19 Starter Conversion Reference Guide

This reference guide provides conversion assistance when converting starters from AN16 w/C306 Bi-metallic overloads to AN19 w/C440 Solid state overloads.

Please note the following when determining starter conversions:

- AN16 / AN56 starters utilize C306 Bimetallic Overloads with Heater Packs
- AN19 / AN59 starters utilize C440 Overloads - No Heater Packs Required
- Refer to the required motor FLA when selecting the Overload Code to be used with AN19 / AN59 starters.
- See NEMA Contactors and Starters Catalog Section 2.1 for additional help with part numbers

Conversion Example: AN16DN0AB w/H2010B-3 Heaters is equivalent to AN19DN0A5E020

AN16 Catalog Number	Code Translation	AN19 Catalog Number
AN16DN0AB	Code A is 120 VAC	AN19DN0A5E020
H2010B-3 Heater Pack	6.75 - 11.0A FLA Heater Pack Range 020 Overload Code = 4-20A Range	AN19DN0A5E020



Starter Conversion Table:

NEMA Size	Continuous Amp Rating	Service Limit Current Rating (Amps)	Three-Pole Non-Reversing		Three-Pole Reversing	
			AN16 Catalog Number	AN19 Catalog Number	AN56 Catalog Number	AN59 Catalog Number
00	9	11	AN16AN0_C	AN19AN0_5E_	AN56AN0_C	AN59AN0_5E_
0	18	21	AN16BN0_C	AN19BN0_5E_	AN56BN0_C	AN59BN0_5E_
1	27	32	AN16DN0_B	AN19DN0_5E_	AN56DN0_B	AN59DN0_5E_
2	45	52	AN16GN0_B	AN19GN0_5E_	AN56GN0_B	AN59GN0_5E_
3	90	104	AN16KN0_	AN19KN0_5E_	AN56KN0_	AN59KN0_5E_
4	130	156	AN16NN0_	AN19NN0_5E_	AN56NN0_B	AN59NN0_5E_
5	270	311	AN16SN0_B	AN19SN0_5E_	AN56SN0_B	AN59SN0_5E_

Coil Suffix Codes (For use with AN19 & AN16 Catalog Numbers)

Suffix	Coil Volts and Hertz	Suffix	Coil Volts and Hertz
A	120/60 or 110/50	H	277/60
B	240/60 or 220/50	L	380-415/50
C	480/60 or 440/50	T	24/60, 24/50
D	600/50 or 550/50	W	48/60

Heater Packs & Overload Code Reference Table

Heater Packs (AN16 w/ C306 Overload)			C440 Overload Selection (AN19 w/C440)		
NEMA Size	Part Number	FLA Range	NEMA Size	Overload Code	FLA Range
00-2	H2001B-6	.0254-.411	00	1P6	.33-1.65
	H2002B-3	.0375-.607		005	1-5
	H2003B-3	.560-.907		020	4-20
	H2004B-3	.814-1.32	0	1P6	.33-1.65
	H2005B-3	1.20-1.96		005	1-5
	H2006B-3	1.79-2.90		020	4-20
	H2007B-3	2.15-3.49			
	H2008B-3	3.23-5.23	1	1P6	.33-1.65
	H2009B-3	4.55-7.40		005	1-5
	H2010B-3	6.75-11.0		020	4-20
	H2011B-3	9.14-14.0		045	9-45
	H2012B-3	14.0-22.8	2	005	1-5
	H2013B-3	18.7-30.7		020	4-20
	H2014B-3	23.5-38.5		045	9-45
	H2015B-3	29.0-44.1			
	H2016B-3	39.6-57.4	3	100	20-100
H2018-3	18.0-24.5				
H2019-3	24.6-33.4				
H2020-3	33.5-45.6				
H2021-3	45.7-62.1				
H2022-3	62.2-84.6	4		140	28-140
H2023-3	84.7-115.0				
H2024-3	106.0-144.0				
5	H2004B-3	49-79	5	300	60-300
	H2005B-3	72-118			
	H2006B-3	107-174			
	H2007B-3	129-209			
	H2008B-3	194-274			

***Overload Code is determined based on motor FLA