

# LUTZE Technical Overview

## Simplified Motor, VFD and Servo Cable Selection by Horsepower (HP) at 90°C

Part#	Amps	AWG (POWER)	230V-3 Ø	460V-3 Ø	575V-3 Ø	
A1061804	4C	14	18 AWG	NA	NA	N/A
A2161604	4C	18	16 AWG	NA	NA	N/A
A1061604	4C	25	14 AWG	5 HP	10 HP	15 HP
A2161404	4C	30	12 AWG	7.5 HP	15 HP	20 HP
A1061204	4C	40	10 AWG	10 HP	20 HP	30 HP
A2161004	4C	55	8 AWG	15 HP	30 HP	40 HP
A1060804	4C	75	6 AWG	20 HP	40 HP	50 HP
A2160604	4C	95	4 AWG	25 HP	50 HP	60 HP
A2200603	3C	130	2 AWG	40 HP	75 HP	100 HP
A1060404	4C	145	1 AWG	40 HP	75 HP	100 HP
A2200403	3C	170	1/0	50 HP	100 HP	125 HP
A2160204	4C	195	2/0	60 HP	125 HP	150 HP
A2200203	3C	225	3/0	60 HP	150 HP	150 HP
A2200103	3C	260	4/0	75 HP	150 HP	200 HP
A2201/003	3C	290	250 kcmil	75 HP	150 HP	200 HP
A2202/003	3C	350	350 kcmil	100 HP	200 HP	250 HP
A2203/003	3C	430	500 kcmil	125 HP	250 HP	350 HP

Number of current carrying conductors is three (3) + green/yellow ground(s)

Part#	Amps	AWG (POWER)	230V-3Ø	460V-3 Ø	575V-3 Ø	
A1071804	4C+1TSP	11	18 AWG	NA	NA	NA
A2171604	4C+1TSP	14	16 AWG	NA	NA	NA
A1071604	4C+1TSP	20	14 AWG	5 HP	10 HP	10 HP
A2171404	4C+1TSP	24	12 AWG	5 HP	10 HP	15 HP
A1071404R	4C+1TSP	32	10 AWG	7.5 HP	15 HP	20 HP
A2171204	4C+1TSP	44	8 AWG	10 HP	25 HP	30 HP
A1071204	4C+1TSP	60	6 AWG	15 HP	30 HP	40 HP
A2171004	4C+1TSP	76	4 AWG	20 HP	40 HP	50 HP
A1071004	4C+1TSP	104	2 AWG	30 HP	60 HP	75 HP

Number of current carrying conductors is five (5) + 1 green/yellow ground

Part#	Amps	AWG (POWER)	230V-3Ø	460V-3 Ø	575V-3 Ø	
A2181604	4C+2TSP	12.5	16 AWG	N/A	N/A	N/A
A2181404	4C+2TSP	17.5	14 AWG	3 HP	10 HP	10 HP
A2181204	4C+2TSP	21	12 AWG	5 HP	10 HP	10 HP
A2181004	4C+2TSP	28	10 AWG	7.5 HP	15 HP	20 HP
A2180804	4C+2TSP	38.5	8 AWG	10 HP	20 HP	25 HP

Number of current carrying conductors is seven (7) + 1 green/yellow ground

### Notes:

- Type of Motor is design B
- Class of Service is continuous
- Duty-Cycle Service is continuous
- Conductor is copper 90°C
- Ambient temperature is 26-30°C
- Values are based on 2017 NEC 430.250 multiplied x 1.25
- Ampacities are based on 2017 NEC 310.15 (B)(16) 90°
- Cables with Signal pair(s) have been de-rated in accordance to 2017 NEC 310.15(B)(3)(a)

\*All values given are calculated based on 2017 NEC. For actual amperage consult your Motor/Drive manual and your local code restrictions. This guideline is simplified in order to select cable sizes. This document has no legal meaning, the interpretation of the NEC code has to be verified by the Authority Having Jurisdiction (AHJ).