



## REACTOR SELECTION GUIDE

### ABB Drives

TCI is proud to introduce the Reactor Selection Guide program. This is a segment of what will become a complete reactor selection tool. Watch for more releases in the coming weeks.

The following selection charts were built to help facilitate the selection of reactors when used on the input of an ABB Drive. The input current ratings were gathered from technical material offered by ABB. The KDR selections were made using the maximum continuous current capacity of each unit. Reactors are current rated devices and should always be sized according to the continuous full load input amperage of the Drive.

For more information on TCI reactors and many other great products, visit us on the web at [www.clrwtr.com](http://www.clrwtr.com) or contact us at (800) 894-0412.

*TCI's mission is to be the leading provider, as defined by our customers, of products and support that increase the value and improve the overall system performance of power inverters.*

### ACS 100

ACS 100 Horse Power	230V 3PH Cat. No.	Input Current	Recommended KDR Low Z	Recommended KDR High Z	Recommended KLR 3%	Recommended KLR 5%
0.5	ACS103-K75-1-U	3.2	KDRA21L	KDRA21H	KLR4BTB	KLR4ATB
0.75	ACS103-1K1-1-U	4.2	KDRA21L	KDRA21H	KLR6BTB	KLR6ATB
1	ACS103-1K6-1-U	5.3	KDRA21L	KDRA21H	KLR6BTB	KLR6ATB
1.5	ACS103-2K1-1-U	7.2	KDRA23L	KDRA23H	KLR8BTB	KLR8ATB
2	ACS103-2K7-1-U	8.9	KDRA24L	KDRA24H	KLR12BTB	KLR12ATB
3	ACS103-4K1-1-U	12	KDRA24L	KDRA24H	KLR12BTB	KLR12ATB

### ACS 140

ACS140 Horse Power	240V 3PH Cat. No.	Input Current	Recommended KDR Low Z	Recommended KDR High Z	Recommended KLR 3%	Recommended KLR 5%
0.5	ACS143-K75-1-U	3.2	KDRA21L	KDRA21H	KLR4BTB	KLR4ATB
0.75	ACS143-1K1-1-U	4.2	KDRA21L	KDRA21H	KLR6BTB	KLR6ATB
1	ACS143-1K6-1-U	5.3	KDRA21L	KDRA21H	KLR6BTB	KLR6ATB
1.5	ACS143-2K1-1-U	7.2	KDRA23L	KDRA23H	KLR8BTB	KLR8ATB
2	ACS143-2K7-1-U	8.9	KDRA24L	KDRA24H	KLR12BTB	KLR12ATB
3	ACS143-4K1-1-U	12	KDRA24L	KDRA24H	KLR12BTB	KLR12ATB

ACS140 Horse Power	480V 3PH Cat. No.	Input Current	Recommended KDR Low Z	Recommended KDR High Z	Recommended KLR 3%	Recommended KLR 5%
0.5	ACS143-K75-3-U	2	KDRA1L	KDRA1H	KLR2ATB	KLR2CTB
0.75	ACS143-1K1-3-U	2.8	KDRA1L	KDRA1H	KLR3ATB	KLR3CTB
1	ACS143-1K6-3-U	3.6	KDRA1L	KDRA1H	KLR4ATB	KLR4CTB
1.5	ACS143-2K1-3-U	4.8	KDRA1L	KDRA2H	KLR6ATB	KLR6CTB
2	ACS143-2K7-3-U	5.8	KDRA1L	KDRA2H	KLR6ATB	KLR6CTB
3	ACS143-4K1-3-U	7.9	KDRA3L	KDRA3H	KLR8ATB	KLR8CTB

### ACS 400

ACS400 Normal HP	208-240V Cat. No.	Input Current	Recommended KDR Low Z	Recommended KDR High Z	Recommended KLR 3%	Recommended KLR 5%
3	ACS401600422	10	KDRA24L	KDRA24H	KLR12BTB	KLR12ATB
5	ACS401600522	15.7	KDRB21L	KDRB22H	KLR16BTB	KLR16ATB
7.5	ACS401600622	22.7	KDRD23L	KDRB22H	KLR25BTB	KLR25ATB
10	ACS401600922	29	KDRD21L	KDRB22H	KLR35BTB	KLR35ATB
15	ACS401601122	43.4	KDRD22L	KDRD22H	KLR45BTB	KLR45ATB
20	ACS401601622	55.8	KDRF21L	KDRF22H	KLR80BTB	KLR80ATB
25	ACS401602022	70.3	KDRF21L	KDRF22H	KLR80BTB	KLR80ATB
30	ACS401603022	82.7	KDRF23L	KDRF23H	KLR110BCB	KLR110ACB
40	ACS401604122	107.2	KDRF23L	KDRF23H	KLR110BCB	KLR110ACB

### ACS 400

ACS400_norm Horse Power	380-480V NEMA1 Cat. No.	Input Current	Recommended KDR Low Z	Recommended KDR High Z	Recommended KLR 3%	Recommended KLR 5%
3	ACS401600432	6.2	KDRA1L	KDRA3H	KLR8ATB	KLR8CTB
5	ACS401600532	8.3	KDRA3L	KDRA4H	KLR12ATB	KLR12CTB
7.5	ACS401600632	11.1	KDRA4L	KDRA4H	KLR12ATB	KLR12CTB
10	ACS401600932	14.8	KDRB2L	KDRB2H	KLR16ATB	KLR16CTB
15	ACS401601132	21.5	KDRB2L	KDRB2H	KLR25ATB	KLR25CTB
20	ACS401601632	29	KDRB2L	KDRC1H	KLR35ATB	KLR35CTB
25	ACS401602032	35	KDRD1L	KDRC1H	KLR35ATB	KLR35CTB
30	ACS401602532	41	KDRD1L	KDRE2H	KLR45ATB	KLR45CTB
40	ACS401603032	56	KDRF2L	KDRF4H	KLR80ATB	KLR80CTB
50	ACS401604132	68	KDRF4L	KDRF1H	KLR80ATB	KLR80CTB

\* Please note that the ACS 600 series contain a 3% AC Reactor or the equivalent. For this reason, higher impedance reactors have not been specified.

### ACS 601

ACS601-NORM Horse Power	208,230,240V 3P Cat. No.	Input Current	Recommended KDR Low Z	Recommended KLR 1.5%	Recommended KLR 3%
1.5	ACS601-0003-2	6.7	KDRA23L	-	KLR8BTB
2	ACS601-0005-2	9.4	KDRA24L	-	KLR12BTB
3	ACS601-0006-2	12.4	KDRB21L	-	KLR16BTB
5	ACS601-0009-2	16.8	KDRB21L	-	KLR18BTB
7.5	ACS601-0011-2	22.5	KDRD23L	-	KLR25BTB
10	ACS601-0016-2	29.6	KDRD21L	-	KLR35BTB
15	ACS601-0020-2	41.3	KDRD22L	-	KLR45BTB
20	ACS601-0025-2	56	KDRF21L	-	KLR80BTB
25	ACS601-0030-2	68	KDRF21L	-	KLR80BTB
30	ACS601-0040-2	79	KDRF21L	-	KLR80BTB
40	ACS601-0050-2	99.7	KDRF23L	-	KLR110BCB
50	ACS601-0060-2	138	KDRI21L	-	KLR160BCB
60	ACS601-0070-2	168	KDRI22L	-	KLR200BCB
75	ACS601-0080-2	217	KDRG21L	-	KLR250BCB
100	ACS601-0100-2	262	KDRJ21L	-	KLR300BCB

### ACS 601

ACS601-NORM Horse Power	380-500V NEMA1 Cat. No.	Input Current	Recommended KDR Low Z	Recommended KLR 1.5%	Recommended KLR 3%
5	ACS601-0006-4	7	KDRA3L	KLR8BTB	KLR8ATB
7.5	ACS601-0009-4	11	KDRA4L	KLR12BTB	KLR12ATB
10	ACS601-0011-4	14	KDRA4L	KLR16BTB	KLR16ATB
15	ACS601-0016-4	20	KDRB2L	KLR21BTB	KLR21ATB
20	ACS601-0020-4	26	KDRB2L	KLR27BTB	KLR27ATB
25	ACS601-0025-4	32	KDRD1L	KLR35BTB	KLR35ATB
30	ACS601-0030-4	39	KDRD1L	KLR45BTB	KLR45ATB
40	ACS601-0040-4	51	KDRC1L	KLR55BTB	KLR55ATB
50	ACS601-0050-4	65	KDRF2L	KLR80BTB	KLR80ATB
60	ACS601-0060-4	81	KDRF3L	KLR110BCB	KLR110ACB
75	ACS601-0070-4	95	KDRF3L	KLR110BCB	KLR110ACB
100	ACS601-0100-4	124	KDRF1L	KLR160BCB	KLR160ACB
125	ACS601-0120-4	158	KDRH2L	KLR160BCB	KLR160ACB
150	ACS601-0140-4	184	KDRH1L	KLR200BCB	KLR200ACB

ACS601- Horse Power	575V NEMA1 Cat. No.	Input Current	Recommended KDR Low Z	Recommended KLR 1.5%	Recommended KLR 3%
5	ACS 601-0009-6	7	KDRA43L	KLR8ATB	KLR8DTB
7.5	ACS 601-0011-6	10	KDRA44L	KLR12ATB	KLR12DTB
10	ACS 601-0016-6	14	KDRB42L	KLR16ATB	KLR16DTB
15	ACS 601-0020-6	19	KDRB42L	KLR21ATB	KLR21DTB
20	ACS 601-0025-6	25	KDRB42L	KLR55ATB	KLR55DTB
25	ACS 601-0030-6	26	KDRB42L	KLR27ATB	KLR27DTB
30	ACS 601-0040-6	35	KDRD41L	KLR35ATB	KLR35DTB
40	ACS 601-0050-6	43	KDRD41L	KLR45ATB	KLR45DTB
50	ACS 601-0060-6	52	KDRC41L	KLR55ATB	KLR55DTB
60	ACS 601-0070-6	62	KDRF42L	KLR80ATB	KLR80DTB
75	ACS 601-0100-6	87	KDRF43L	KLR110ACB	KLR110DCB
100	ACS 601-0120-6	103	KDRF43L	KLR110ACB	KLR110DCB

### ACS 604

ACS 604 Horse Power	230V CHASSIS Cat. No.	Input Current	Recommended KDR Low Z	Recommended KLR 1.5%	Recommended KLR 3%
125	ACS 604-0120-2	329	KDRJ21L	-	KLR360BCB
150	ACS 604-0140-2	397	KDRL21L	-	KLR420BCB
200	ACS 604-0170-2	487	-	-	KLR600BCB

### ACS 604

ACS 604- Horse Power	380 V CHASSIS Cat. No.	Input Current	Recommended KDR Low Z	Recommended KLR 1.5%	Recommended KLR 3%
125	ACS 604-0120-3	158	KDRH2L	KLR160BCB	KLR160ACB
150	ACS 604-0140-3	184	KDRH1L	KLR200BCB	KLR200ACB
200	ACS 604-0170-3	221	KDRG3L	KLR250BCB	KLR250ACB
250	ACS 604-0210-3	270	KDRG1L	KLR300BCB	KLR300ACB
300	ACS 604-0260-3	329	KDRG1L	KLR360BCB	KLR360ACB
350	ACS 604-0320-3	426	KLRJ2L	KLR480BCB	KLR480ACB
400	ACS 604-0400-3	487	KDRJ2L	KLR600BCB	KLR600ACB
450	ACS 604-0490-3	593	KDRL1L	KLR600BCB	KLR600ACB
600	ACS 604-0610-3	714	-	KLR750BCB	KLR750ACB
700	ACS 604-0760-3	887	-	KLR950BCB	KLR950ACB

ACS 604- Horse Power	460V CHASSIS Cat. No.	Input Current	Recommended KDR Low Z	Recommended KLR 1.5%	Recommended KLR 3%
125	ACS 604-0120-4	158	KDRH2L	KLR160BCB	KLR160ACB
150	ACS 604-0170-4	184	KDRH1L	KLR200BCB	KLR200ACB
150	ACS 604-0140-5	221	KDRG3L	KLR250BCB	KLR250ACB
200	ACS 604-0210-4	270	KDRG1L	KLR300BCB	KLR300ACB
250	ACS 604-0260-4	329	KDRG1L	KLR360BCB	KLR360ACB
300	ACS 604-0320-4	426	KDRJ2L	KLR480BCB	KLR480ACB
350	ACS 604-0320-4	426	KDRJ2L	KLR480BCB	KLR480ACB
400	ACS 604-0400-4	487	KDRJ2L	KLC600BCB	KLC600ACB
500	ACS 604-0490-5	593	KDRL1L	KLR600BCB	KLR600ACB
600	ACS 604-0610-5	714	-	KLR750BCB	KLR750ACB
700	ACS 604-0760-5	887	-	KLR950BCB	KLR950ACB

ACS 604- Horse Power	575V CHASSIS Cat. No.	Input Current	Recommended KDR Low Z	Recommended KLR 1.5%	Recommended KLR 3%
75	ACS 604-0100-6	87	KDRF43L	KLR110ACB	KLR110DCB
100	ACS 604-0120-6	103	KDRF43L	KLR110ACB	KLR110DCB
125	ACS 604-0140-6	126	KDRH42L	KLR130ACB	KLR130DCB
150	ACS 604-0170-6	149	KDRH42L	KLR160ACB	KLR160DCB
150	ACS 604-0210-5	180	KDRG43L	KLR200ACB	KLR200DCB
200	ACS 604-0260-6	226	KDRG43L	KLR250ACB	KLR250DCB
250	ACS 604-0320-6	264	KDRG41L	KLR300ACB	KLR300DCB
350	ACS 604-0400-6	345	KDRG42L	KLR360ACB	KLR360DCB
450	ACS 604-0490-6	434	KDRJ42L	KLR480ACB	KLR480DCB
500	ACS 604-0610-6	511	KDRJ41L	KLR600ACB	KLR600DCB
700	ACS 604-0760-6	676	-	KLR750ACB	KLR750DCB

### ACS 607

<b>ACS607-NORM</b> Horse Power	<b>380-500V NEMA1</b> Cat. No.	Input Current	Recommended KDR Low Z	Recommended KLR 1.5%	Recommended KLR 3%
125	ACS607--0120-4	158	KDRH2L	KLR160BCB	KLR160ACB
150	ACS607--0140-4	184	KDRH1L	KLR200BCB	KLR200ACB
150	ACS607--0170-4	221	KDRG3L	KLR250BCB	KLR250ACB
200	ACS607--0210-4	270	KDRG1L	KLR300BCB	KLR300ACB
250	ACS607--0260-4	329	KDRG1L	KLR360BCB	KLR360ACB
300	ACS607--0320-4	426	KDRJ2L	KLR480BCB	KLR480ACB
350	ACS607--0320-4	426	KDRJ2L	KLR480BCB	KLR480ACB
400	ACS607--0400-4	487	KDRJ2L	KLR600BCB	KLR600ACB
500	ACS607--0490-5	593	KDRL1L	KLR600BCB	KLR600ACB
600	ACS607--0610-5	714	-	KLR750BCB	KLR750ACB
700	ACS607--0760-5	887	-	KLR950BCB	KLR950ACB

<b>ACS607</b> Horse Power	<b>575V NEMA1</b> Cat. No.	Input Current	Recommended KDR Low Z	Recommended KLR 1.5%	Recommended KLR 3%
100	ACS 607-0120-6	103	KDRF43L	KLR110ACB	KLR110DCB
125	ACS 607-0140-6	126	KDRH42L	KLR130ACB	KLR130DCB
150	ACS 607-0170-6	149	KDRH42L	KLR160ACB	KLR160DCB
150	ACS 607-0210-5	180	KDRG43L	KLR200ACB	KLR200DCB
200	ACS 607-0260-6	226	KDRG43L	KLR250ACB	KLR250DCB
250	ACS 607-0320-6	264	KDRG41L	KLR300ACB	KLR300DCB
350	ACS 607-0400-6	345	KDRG42L	KLR360ACB	KLR360DCB
450	ACS 607-0490-6	434	KDRJ42L	KLR480ACB	KLR480DCB
500	ACS 607-0610-6	511	KDRJ41L	KLR600ACB	KLR600DCB
700	ACS 607-0760-6	676	-	KLR750ACB	KLR750DCB