

Standard motors in the CR range

Motors used in the CR pump range are:

- Grundfos ML or MLE motors
- Grundfos specified Baldor® motors

The information in the tables below applies to following motors type and size:

Type	Phase	Motor range [HP]	Cooling method
ML	3	1/3 - 10	TEFC
	1	1/3 - 10	TEFC
Baldor	3	15 - 100	TEFC
	3	15 - 100	ODP
MLE	1	1/2 - 1 1/2	TEFC
	3	1 - 10	TEFC

Grundfos CR pumps are supplied with heavy-duty 2-pole, NEMA energy efficient C-frame motors built or selected to our rigid specifications. All CR pump motors have heavy-duty bearings for maximum thrust requirements.

TEFC motors

(Totally Enclosed Fan Cooled, constant speed)

HP	PH	Frame	S.F.	Voltage [V]	Mtr. Eff. [%]	Insul. class	KVA code	Full load current [A]	Service Factor current [A]	Start current [A]	Motor type
1/3	1	56C	1.35	115/230	55	B	K	6.0/3.0	7.6/3.8	28/14	Baldor
	3	56C	1.35	208-230/460	78.5	F	L	1.12-1.1/0.55	1.5-1.45/0.75	7.1-7.7/3.9	ML
1/2	1	56C	1.6	115/230	62	B	K	7.4/3.7	9.8/4.9	39/19.5	Baldor
	3	56C	1.25	208-230/460	78.5	F	K	1.64-1.55/0.78	2.0-1.9/0.95	9.7-10.1/5.1	ML
3/4	1	56C	1.25	115/230	66	B	K	9.6/4.8	11.4/5.7	56/28	Baldor
	3	56C	1.25	208-230/460	79	F	K	2.4-2.3/1.2	2.9-2.75/1.4	14.2-15/7.8	ML
1	1	56C	1.25	115/230	66	B	K	12/6.0	14.4/7.2	77/38.5	Baldor
	3	56C	1.25	208-230/460	80	F	J	3.25-3.35/1.68	4.0-3.9/1.95	19.2-21.8/10.9	ML
1 1/2	1	56C	1.3	115/208-230	71	B	K	17/9.5-8.6	20.4/11.3-10.2	106/58.6-53	Baldor
	3	56C	1.15	208-230/460	84	F	M	4.7-4.6/2.3	5.2-5.1/2.55	33.8-36.8/18.4	ML
2	1	56C	1.15	115/208-230	74	F	K	23/12.7-11.5	25.4/14.0-12.7	156/86-78	Baldor
	3	56C	1.15	208-230/460	85.5	F	G	5.7-5.4/2.7	6.55-6.1/3.05	46.2-48.6/24.3	ML
3	1	182TC	1.15	115/208-230	75	F	H	29/16-14.5	31 8/18-15.9	170/94-85	Baldor
	3	182TC	1.15	208-230/460	86.5	F	M	8.4-7.7/3.9	9 5-8.6/4.3	79.0-80.1/40.6	ML
5	1	213TCZ	1.15	208-230	80	F	J	24-22	27-25	188-170	Baldor
	3	182TC	1.15	208-230/460	88.5	F	L	13.8-13.0/6.5	15.6-14.6/7.3	124-129/64.4	ML
7 1/2	1	213TC	1.15	208-230	82	F	F	33.8-31	38.5-35.5	244-220	Baldor
	3	213TC	1.15	208-230/460	90	F	N	20.4-19.4/9.7	23-21.5/10.8	192-202/101	ML
10	1	213TC	1.15	230	85.5	F	F	40	46	284	Baldor
	3	213TC	1.15	208-230/460	90.2	F	L	26.5-25.5/12 8	30.5-28.5/14.5	239-252/127	ML
15	3	254TCZ	1.15	208-230/460	90.2	F	K	37.5-34/17	42 5-39/19.5	270-304/152	Baldor
20	3	254TCZ	1.15	208-230/460	90.2	F	K	47-46/23	53-52/26	355-412/206	Baldor
25	3	284TSCZ	1.15	230/460	91	F	J	56/28	64/32	498/249	Baldor
30	3	286TSCZ	1.15	230/460	91	F	G	70/35	78/39	450/225	Baldor
40	3	286TSCZ	1.15	230/460	91.7	F	G	88/44	102/51	614/307	Baldor
50	3	326TSCZ	1.15	230/460	93	F	G	110/55	128/64	746/393	Baldor
60	3	364TSCZ	1.15	230/460	93	F	G	134/67	154/77	918/459	Baldor
75	3	365TSCZ	1.15	230/460	93	F	G	166/83	188/94	1162/581	Baldor
100	3	405TSCZ	1.15	230/460	93.6	F	G	216/108	246/123	1422/711	Baldor

It is not recommended that an off-the-shelf standard Baldor motor be used on a Grundfos pump. Ideally, the best motor choice would be the Grundfos specified motor.

Single-phase Grundfos specified motors up to 7.5 hp have a built-in thermal overload switch.

Other motor types are available (i.e., Explosion proof, Mill and Chem duty, Premium Efficiency, etc.); consult local Grundfos company for more information.

Pumps supplied by Grundfos Canada are normally supplied with motors from other manufactures. 575 volt motors meet NEMA energy efficient standards. Dimensions and data will vary, contact local Grundfos company for more information.

All values are subject to change without notice.

Baldor motor



TM02 7696 3803

ML motor



GR 7845

ODP motors

(Open Drip Proof, constant speed)

HP	PH	ODP Frame	ODP S.F.	ODP Voltage	ODP Mtr. Eff. %	ODP Insul. class	ODP KVA code	ODP Full load current	ODP service Factor current	ODP Start current
15	3	254TCZ	1.15	208-230/460	89.5	F	H	37-35/17.5	40-39.4/19.7	225-248/124
20	3	254TC	1.15	230/460	90.2	B	G	48/24	55/27.5	306/153
25	3	284TSCZ	1.15	208-230/460	91	B	G	64-59/29.5	74-67/33.5	335-374/187
30	3	284TSC	1.15	230/460	91	F	H	70/35	80/40	480/240
40	3	286TSCZ	1.15	230/460	91.7	F	F	94/47	108/54	542/271
50	3	324TSCZ	1.15	230/460	92.4	F	G	116/58	134/67	732/366
60	3	324TSCZ	1.15	230/460	93	B	G	132/66	152/76	876/438
75	3	364TSCZ	1.15	230/460	93	F	G	168/84	192/96	1110/555
100	3	365TSCZ	1.15	230/460	93	F	G	226/113	260/130	1380/690

Baldor motor



TM02 7696

MLE motors

(Integrated variable frequency drive)

HP	Voltage	Ph	NEMA frame	Service factor	Full load eff [%] *	Ins. class	Full load amps **	Service factor amps
1/2	208-230	1	56C	1.0	71.0	F	2.80	-
3/4	208-230	1	56C	1.0	74.0	F	3.90	-
1	208-230	1	56C	1.0	76.0	F	5.20	-
	460-480	3	56C	1.25	78.0	F	1.70	2.10
1 1/2	208-230	1	56C	1.0	77.0	F	7.50	-
	208-230	3	56C	1.0	76.8	F	4.20	-
	460-480	3	56C	1.15	80.0	F	2.15	2.50
2	208-230	3	56C	1.0	78.3	F	5.60	-
	460-480	3	56C	1.15	82.0	F	2.70	3.10
3	208-230	3	182TC	1.0	79.5	F	8.10	-
	460-480	3	182TC	1.15	84.0	F	3.70	4.30
5	208-230	3	184TC	1.0	79.7	F	13.4	-
	460-480	3	184TC	1.15	85.0	F	6.10	7.00
7 1/2	208-230	3	215TC	1.0	82.5	F	19.7	-
	460-480	3	215TC	1.15	85.0	F	8.90	10.3
10	460-480	3	215TC	1.15	86.0	F	12.0	13.8



GR 8972_P

* This is the combined full load efficiency of the motor and variable frequency drive.

** At 208 volts for 208-230 volt motors and at 460 volts for 460-480 volt motors.