



C3231, C3240, C3306, C3312, C3351,
C3356, C3400, C3501, C3531, C3602,
C3800

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Product Description

Product overview

Submersible pump for pumping water and wastewater containing solids or long-fibred material.

Installations

Pump	Installation			
	P	S	T	Z
C3231	X	X	X	X
C3240	X	X	X	X
C3306	X	X	X	X
C3312	X	X	X	X
C3351	X		X	X
C3356	X		X	X
C3400	X		X	X
C3501	X		X	X
C3531	X		X	X
C3602	X		X	X
C3800	X		X	X

Accessories

Mechanical accessories which are available include the following:

- Cable handling systems
- Lifting equipment

Electrical accessories which are available include the following:

- Pump controller
- Control panels
- Starters
- MAS and other monitoring relays

See your local sales and service representative for further information.

Options

The following options are available:

- Zinc anodes for corrosion protection
- Special coating system (with epoxy base coat) for demanding environments
- Power monitoring
- Monitoring options for temperature, vibration and water in the oil housing

Materials

Impeller

Table 1: C3240

Material	Internal material number	Standard	
		Europe	USA
Cast iron	M0314.0125.00	EN 1561 No. JL 1040	ASTM-A 48 - No 35 B

Table 2: C3231, C3306, C3312, C3356, C3400, C3501

Material	Internal material number	Standard	
		Europe	USA
Cast iron	M0314.0125.00	EN 1561 No. JL 1040	ASTM-A 48 - No 35 B
Stainless steel: duplex	M0344.2324.12	EN 10283 No. 1.4474	ASTM (CD-4MCuN)

Table 3: C3351, C3531

Material	Internal material number	Standard	
		Europe	USA
Cast iron	M0314.0125.00	EN 1561 No. JL 1040	ASTM-A 48 - No 35 B
Cast iron: spheroidal graphite	M0316.0727.02	EN 1563 No. JS 1050 (GJS-500-7)	ASTM-A 536 - No. 80-55-06
Stainless steel: duplex	M0344.2324.12	EN 10283 No. 1.4474	ASTM (CD-4MCuN)

Table 4: C3602, C3800

Material	Internal material number	Standard	
		Europe	USA
Cast iron: spheroidal graphite	M0316.0727.02	EN 1563 No. JS 1050 (GJS-500-7)	ASTM-A 536 - No. 80-55-06
Stainless steel: duplex	M0344.2324.12	EN 10283 No. 1.4474	ASTM (CD-4MCuN)

Pump housing

Table 5: C3231, C3240, C3306, C3312, C3351, C3356, C3400, C3800

Available materials	Internal material number	Standard	
		Europe	USA
Cast iron	M0314.0125.00	EN 1561 No. JL 1040	ASTM-A 48 - No 35 B

Table 6: C3501, C3531

Available materials	Internal material number	Standard	
		Europe	USA
Cast iron: spheroidal graphite	M0316.0727.02	EN 1563 No. JS 1050 (GJS-500-7)	ASTM-A 536 - No. 80-55-06

Table 7: C3602

Installation	Available materials	Internal material number	Standard	
			Europe	USA
CT	Cast iron (spheroidal graphite)	M0316.0727.02	EN 1563 No. JS 1050 (GJS-500-7)	ASTM-A 536 - No. 80-55-06
Other	Cast iron	M0314.0125.00	EN 1561 No. JL 1040	ASTM-A 48 - No 35 B

Mechanical face seals

Seal	Material, rotating ring	Material, stationary ring
Inner	Wolfram Carbide Corrosion Resistant (WCCR)	WCCR
Outer	WCCR	WCCR

Drive unit shaft

Available materials	Internal material number	Standard	
		Europe	USA
Stainless steel: martensitic	M0344.2321.03	EN 10088-3 No. 1.4057	ASTM/AISI 431
Stainless steel: austenitic-ferritic	M0344.2324.02	EN 10088-3 No. 1.4460	ASTM/AISI 329

O-rings

Available materials	Internal material number	Standard	
		Europe	USA
Nitrile rubber 70° IRH	M0516.2637.04	-	-

Coating system

The following table describes the two variants of paint systems available for the pump, Standard and Special. The choice of coating system depends upon the service environment.

Coating system	Basecoat	Topcoat	Total dry film thickness
Standard	Acrylic (waterborne) or alkyd (solventborne)	Oxirane ester, 2-pack	120-350 µm
Special (option)	Epoxy, 2 layers	Oxirane ester, 2-pack, 1 layer	350-700 µm

Other coating systems are available for special requirements such as drinking water, high temperature or erosion applications. See the Xylem internal standard M0700.00.0001 (Coating Selection Guidelines).

Mounting-related data

Depth of immersion

The maximum depth of immersion is 20 m (65 ft.).

Weight

See the dimensional drawing for pump weights.

Cables

Table 8: C3231, C3306, C3356

SUBCAB®	Maximum voltage 600-1000 V, intended for drive units up to 1 kV. To be dimensioned by Xylem.
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Table 9: C3240, C3312, C3351, C3400, C3501, C3531, C3602, C3800

SUBCAB®	Maximum voltage 600-1000 V, intended for drive units up to 1 kV. To be dimensioned by Xylem.
NTSCGEWTOEUS	For use with medium voltage (1.2-6.6 kV) drive units. To be dimensioned by Xylem.

Engineering data

Performance curves, motor data and dimensional drawings are available from your local sales and service representative.

Impeller throughlet

Pump	Throughlet	
	mm	in.
C3231	88 / 102	3.46 / 4.02
C3240	78	3.07
C3306	104	4.09
C3312	102	4.02
C3351	110	4.33
C3356	102	4.02
C3400	110	4.33
C3501	110	4.33

Pump	Throughlet	
	mm	in.
C3531	105	4.13
C3602	126	4.96
C3800	144	5.67

Drive units

C3231

Voltage range	Standard drive units	Explosion-proof drive units	Maximum number of starts per hour
Up to 1 kV	605	615	15
	665	675	15
Up to 1 kV	705	715	15
	735	745	15
	765	775	15
Up to 1 kV	706	716	8
	736	746	8
	766	776	8

C3240

Voltage range	Standard drive units	Explosion-proof drive units	Maximum number of starts per hour
Up to 1 kV	805	815	15
	835	845	15
	865	875	15
	885	895	8
1.2-6.6 kV	862	872	15
	882	892	8

C3306

Voltage range	Standard drive units	Explosion-proof drive units	Maximum number of starts per hour
Up to 1 kV	605	615	15
	665	675	15
Up to 1 kV	705	715	15
	735	745	15
	765	775	15
Up to 1 kV	706	716	8
	736	746	8
	766	776	8

C3312

Voltage range	Standard drive units	Explosion-proof drive units	Maximum number of starts per hour
Up to 1 kV	705	715	15
	735	745	15
	765	775	15
Up to 1 kV	706	716	8
	736	746	8
	766	776	8
Up to 1 kV	835	845	15
	865	875	15
	885	895	8
1.2-6.6 kV	862	872	15
	882	892	8

C3351

Voltage range	Standard drive units	Explosion-proof drive units	Maximum number of starts per hour
Up to 1 kV	905	915	8
	935	945	8
	965	975	8
1.2-6.6 kV	950	960	8
	985	995	8
	988	998	8

C3356

Voltage range	Standard drive units	Explosion-proof drive units	Maximum number of starts per hour
Up to 1 kV	605	615	15
	665	675	15
Up to 1 kV	705	715	15
	735	745	15
	765	775	15
Up to 1 kV	706	716	8
	736	746	8
	766	776	8

C3400

Voltage range	Standard drive units	Explosion-proof drive units	Maximum number of starts per hour
Up to 1 kV	705	715	15
	735	745	15
	765	775	15

Voltage range	Standard drive units	Explosion-proof drive units	Maximum number of starts per hour
Up to 1 kV	706	716	8
	736	746	8
	766	776	8
Up to 1 kV	805	815	15
	835	845	15
	865	875	15
	885	895	8
1.2-6.6 kV	862	872	15
	882	892	8

C3501

Voltage range	Standard drive units	Explosion-proof drive units	Maximum number of starts per hour
Up to 1 kV	705	715	15
	735	745	15
	765	775	15
Up to 1 kV	706	716	8
	736	746	8
	766	776	8
Up to 1 kV	805	815	15
	835	845	15
	865	875	15
	885	895	8
1.2-6.6 kV	862	872	15
	882	892	8

C3531

Voltage range	Standard drive units	Explosion-proof drive units	Maximum number of starts per hour
Up to 1 kV	705	715	15
	735	745	15
	765	775	15
Up to 1 kV	706	716	8
	736	746	8
	766	776	8
Up to 1 kV	805	815	15
	835	845	15
	865	875	15
	885	895	8

Voltage range	Standard drive units	Explosion-proof drive units	Maximum number of starts per hour
Up to 1 kV	905	915	8
	935	945	8
	965	975	8
1.2-6.6 kV	862	872	15
	882	892	8
	950	960	8
	985	995	8
	988	998	8

C3602

Voltage range	Standard drive units	Explosion-proof drive units	Maximum number of starts per hour
Up to 1 kV	735	745	15
	765	775	15
Up to 1 kV	736	746	8
	766	776	8
Up to 1 kV	805	815	15
	835	845	15
	865	875	15
	885	895	8
Up to 1 kV	905	915	8
	935	945	8
1.2-6.6 kV	862	872	15
	882	892	8
	950	960	8
	985	995	8
	988	998	8

C3800

Voltage range	Standard drive units	Explosion-proof drive units	Maximum number of starts per hour
Up to 1 kV	905	915	8
	935	945	8
	965	975	8
1.2-6.6 kV	950	960	8
	985	995	8
	988	998	8

Operational data

Application limits

Table 10: Process data

Parameter	Value
Liquid temperature	Max. +40°C (+105°F)
Depth of immersion	Max. 20 m (65 ft.)
pH of pumped liquid	pH 6–11
Liquid density	Max. 1100 kg/m ³ (9.17 lb per gal.)

Motor Data

Motor characteristics

Insulation class	H (+180°C, +356°F)
Voltage variation	Max. +/- 10%
Voltage imbalance between phases	Max. 2%

Frequency

Pump	50 Hz	60 Hz
C3231	X	X
C3240	X	X
C3306	X	X
C3312	X	X
C3351	X	X
C3356	X	X
C3400	X	X
C3501	X	X
C3531	X	X
C3602	X	X
C3800	X	X

Monitoring with MAS-711

The pump is designed for use with the Flygt MAS-711 monitoring system. The parameters tracked are chosen by the customer and can include the following:

- Temperature (main and support bearings, stator windings)
- Vibration
- Leakage (in stator housing, junction box, and water into oil chamber)
- Power monitoring

Table 11: Parameters monitored

Description	Sensor	Standard or optional
Pump memory	Printed circuit board for pump memory includes a temperature sensor.	Standard
Leakage in the junction box	Float Switch Leakage Sensor (FLS)	Standard

Description	Sensor	Standard or optional
Main bearing temperature	Pt100 analogue temperature sensor	Standard
Leakage in the stator housing or inspection chamber	Float Switch Leakage Sensor (FLS)	Standard
Stator winding temperature	See table below.	Standard
Support bearing temperature	Pt100 analogue temperature sensor	Optional
Water in oil (not applicable for 7X6 drive units)	Capacitive Leakage Sensor (CLS)	Optional
Vibration	VIS 10	Optional
Power monitoring	Separate electronic instrument using three current transformers.	Optional
Pump current	A current transformer in the control cabinet is required.	

Table 12: Stator winding temperature, monitoring configurations

Drive units	Sensors in coil ends of stator windings	Additional sensors, incorporated in the stator windings:	
		Always (standard)	Additional option
Up to 1 kV	One of the following choices: <ul style="list-style-type: none"> • 3 thermal switches (standard), or • 3 PTC-thermistors (optional) 	Pt100 analogue temperature sensor in 1 stator winding (standard)	Pt100 analogue temperature sensors in 2 additional stator windings (optional)
1.2–6.6 kV	PTC-thermistors (3+3) 3 sensors are connected in series, and 3 are built-in reserves.	Pt100 analogue temperature sensors in all 3 stator windings (3+3) Each winding has 1 sensor connected, and 1 built-in reserve.	

C3231 Motor rating and performance, 50 Hz

Low voltage

Table 13: C3231, 50 Hz, low voltage

Curve / impeller no.	Rotations per minute	Drive unit	Voltage, V	Rated power, kW	Rated current, A	Starting current, A	Power factor $\cos \varphi$
430	1480	605 / 615	400	70	127	800	0.86
		665 / 675	400	85	153	1025	0.86
		665 / 675	400	105	190	1380	0.85
		705 / 715	400	125	234	1525	0.83
		706 / 716	400	125	225	1305	0.84
		735 / 745	400	170	300	2020	0.87
		736 / 746	400	170	296	1820	0.87
455	1480	605 / 615	400	70	127	800	0.86
		665 / 675	400	85	153	1025	0.86
		665 / 675	400	105	190	1380	0.85
		705 / 715	400	125	234	1525	0.83
		706 / 716	400	125	225	1305	0.84
		735 / 745	400	170	300	2020	0.87
		736 / 746	400	170	296	1820	0.87
655	985	605 / 615	400	58	118	660	0.78

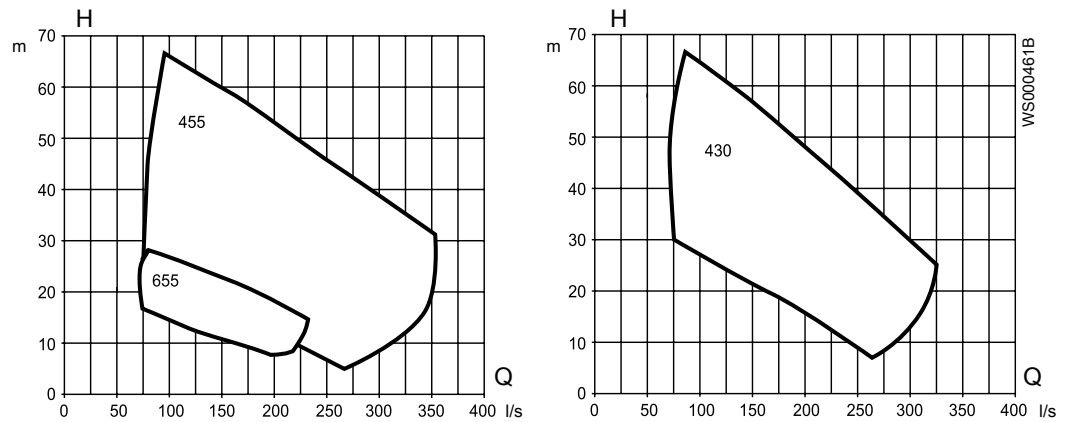


Figure 1: C3231, 50 Hz, low voltage

C3240 Motor rating and performance, 50 Hz

Low voltage

Table 14: C3240, 50 Hz, low voltage

Curve / impeller no.	Rotations per minute	Drive unit	Voltage, V	Rated power, kW	Rated current, A	Starting current, A	Power factor $\cos \varphi$
450	1490	805 / 815	400	215	375	2920	0.88
		835 / 845	400	290	515	4505	0.86
		865 / 875	400	375	650	5420	0.88

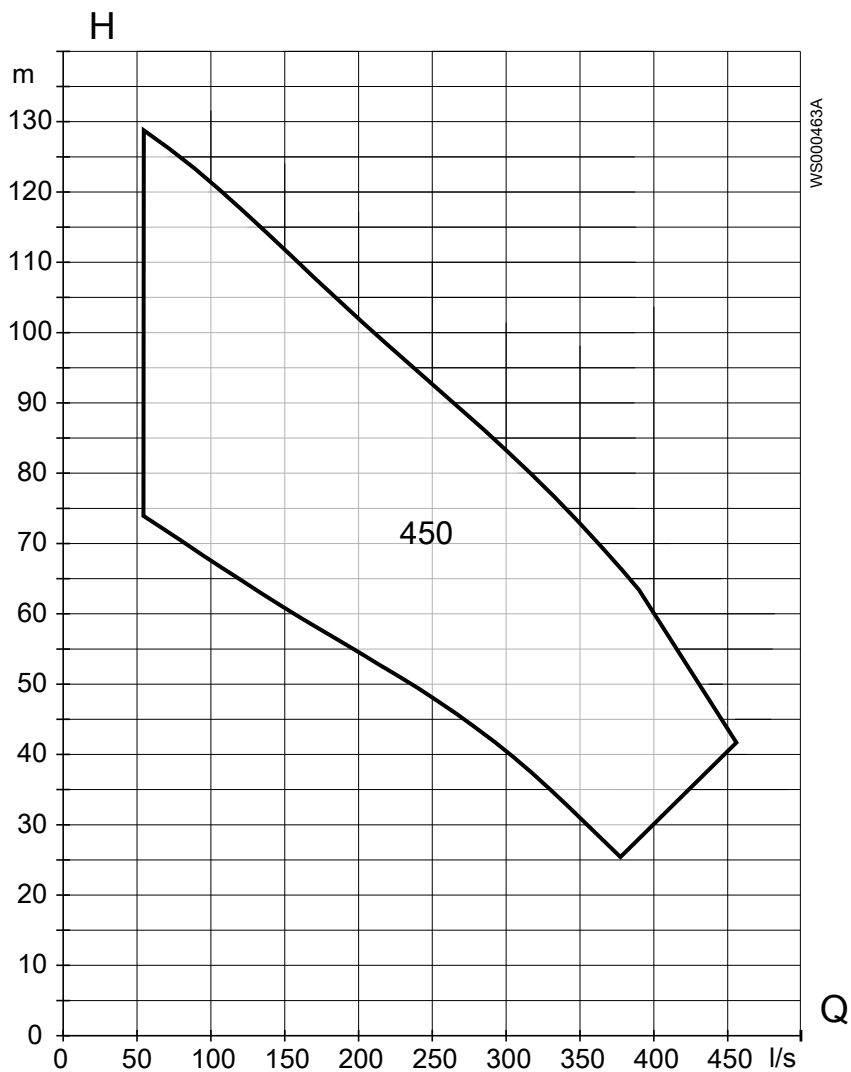


Figure 2: C3240, 50 Hz, low voltage

Medium voltage

Table 15: C3240, 50 Hz, medium voltage

Curve / impeller no.	Rotations per minute	Drive unit	Voltage, V	Rated power, kW	Rated current, A	Starting current, A	Power factor $\cos \varphi$
450	1490	862 / 872	6000	205	24	188	0.85
			3300	215	47	360	0.84
	882 / 892	3300	290	63	475	0.84	
		3300	345	74	505	0.85	
		6000	275	33	260	0.84	
		6000	325	39	284	0.84	

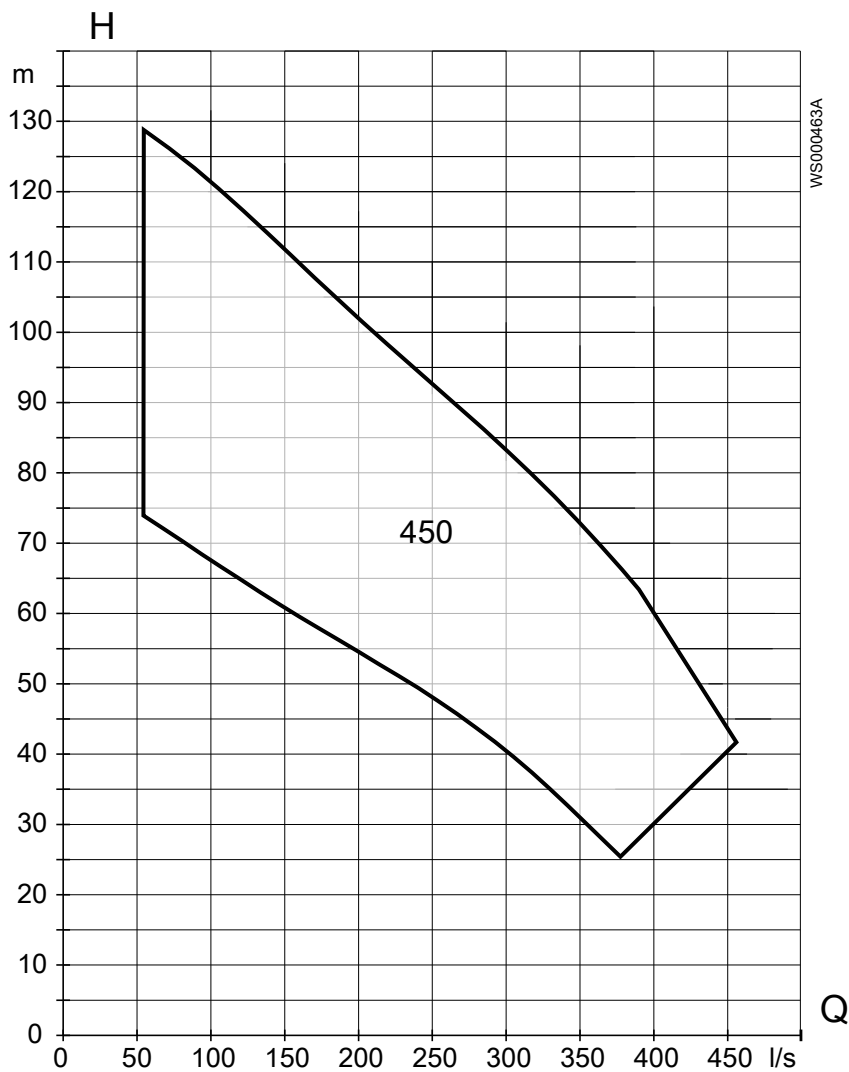


Figure 3: C3240, 50 Hz, medium voltage

C3306 Motor rating and performance, 50 Hz

Low voltage

Table 16: C3306, 50 Hz, low voltage

Curve / impeller no.	Rotations per minute	Drive unit	Voltage, V	Rated power, kW	Rated current, A	Starting current, A	Power factor $\cos \varphi$
410	1480	735 / 745	400	170	300	2020	0.87
		736 / 746	400	170	296	1820	0.87
		765 / 775	400	215	395	2945	0.83
		766 / 776	400	215	362	1955	0.89
610	985	605 / 615	400	58	118	660	0.78
		665 / 675	400	75	150	835	0.79
		665 / 675	400	90	185	1160	0.76
		705 / 715	400	100	202	1150	0.78
		706 / 716	400	100	206	1130	0.76
		735 / 745	400	140	268	1545	0.81
		736 / 746	400	140	258	1540	0.83

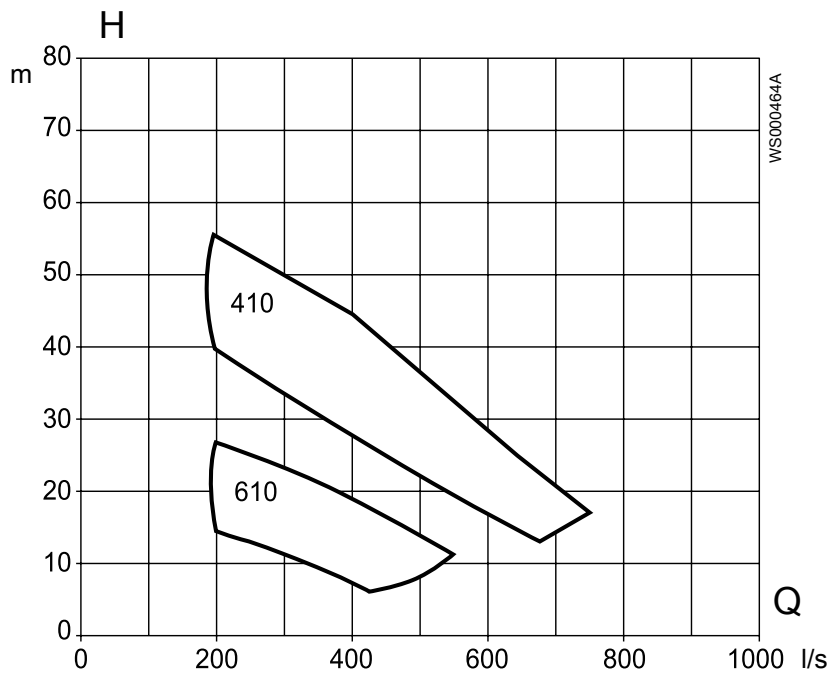


Figure 4: C3306, 50 Hz, low voltage

C3312 Motor rating and performance, 50 Hz

Low voltage

Table 17: C3312, 50 Hz, low voltage

Curve / impeller no.	Rotations per minute	Drive unit	Voltage, V	Rated power, kW	Rated current, A	Starting current, A	Power factor $\cos \varphi$
830	735	705 / 715	400	55	107	505	0.82
			400	90	182	775	0.79
		706 / 716	400	55	106	525	0.80
			400	90	184	705	0.77
630	985	705 / 715	400	100	202	1150	0.78
		706 / 716	400	100	206	1130	0.76
		735 / 745	400	140	268	1545	0.81
		736 / 746	400	140	258	1540	0.83
		765 / 775	400	180	360	2215	0.77
		766 / 776	400	180	316	1785	0.86
		835 / 845	400	250	465	2645	0.82

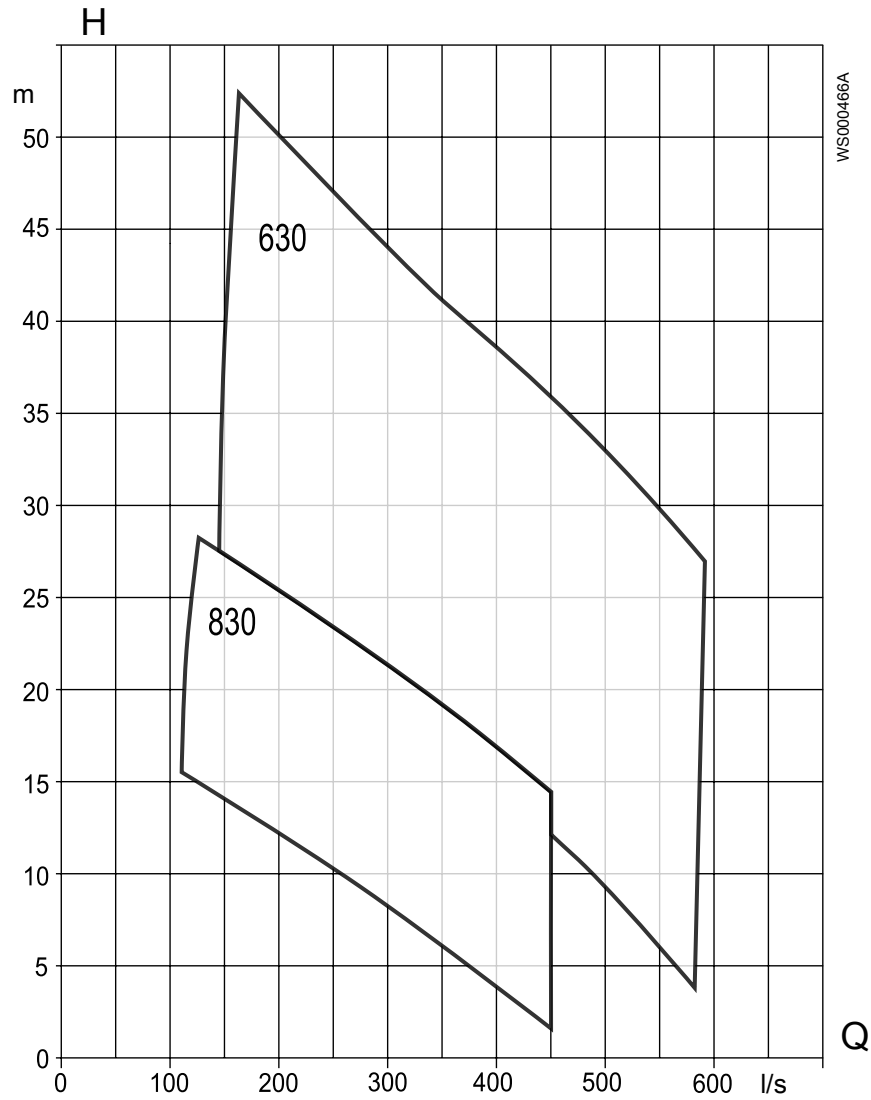


Figure 5: C3312, 50 Hz, low voltage

Medium voltage

Table 18: C3312, 50 Hz, medium voltage

Curve / impeller no.	Rotations per minute	Drive unit	Voltage, V	Rated power, kW	Rated current, A	Starting current, A	Power factor $\cos \varphi$
630	990	862 / 872	3300	190	41	262	0.85
			6000	180	22	140	0.85
		882 / 892	3300	250	54	390	0.85
			6000	240	29	218	0.84

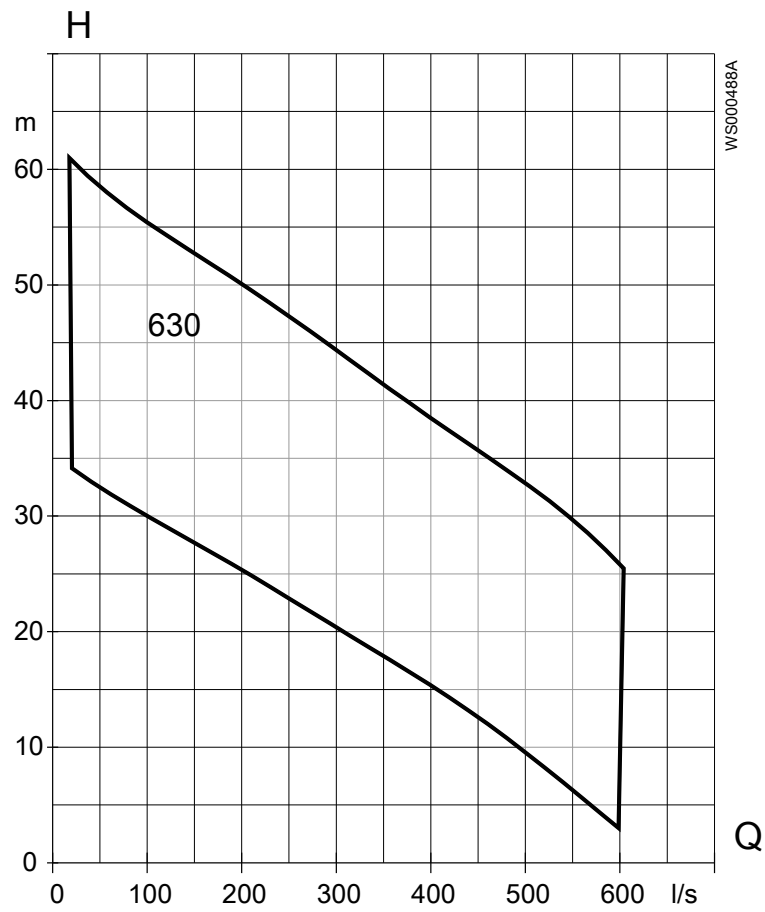


Figure 6: C3312, 50 Hz, medium voltage

C3351 Motor rating and performance, 50 Hz

Low voltage

Table 19: C3351, 50 Hz, low voltage

Curve / impeller no.	Rotations per minute	Drive unit	Voltage, V	Rated power, kW	Rated current, A	Starting current, A	Power factor $\cos \varphi$
650	990	905 / 915	400	290	525	3115	0.84
			400	375	685	4180	0.83
		935 / 945	400	460	840	5190	0.82
			400	560	990	5580	0.85

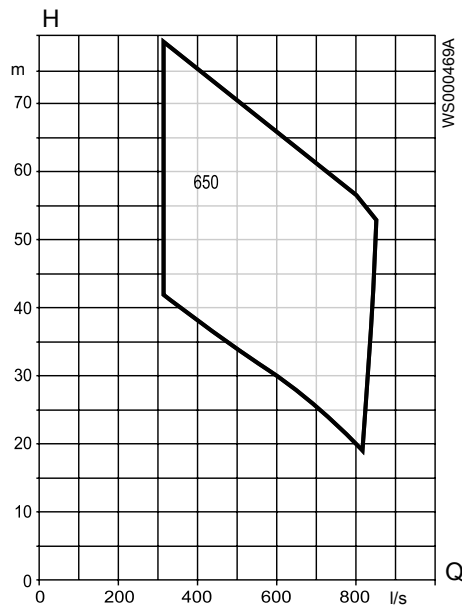


Figure 7: C3351, 50 Hz, low voltage

Medium voltage

Table 20: C3351, 50 Hz, medium voltage

Curve / impeller no.	Rotations per minute	Drive unit	Voltage, V	Rated power, kW	Rated current, A	Starting current, A	Power factor $\cos \varphi$		
650	995	950 / 960	6000	250	30	178	0.84		
				315	38	228	0.85		
			3300	265	58	330	0.84		
				340	76	455	0.82		
			985 / 995	6000	380	46	288	0.84	
					445	54	340	0.84	
		3300		520	61	370	0.86		
				400	86	490	0.86		
		850	745	950 / 960	6000	215	28	151	0.83
						270	33	190	0.82
3300	225				51	291	0.82		
	290				65	360	0.82		

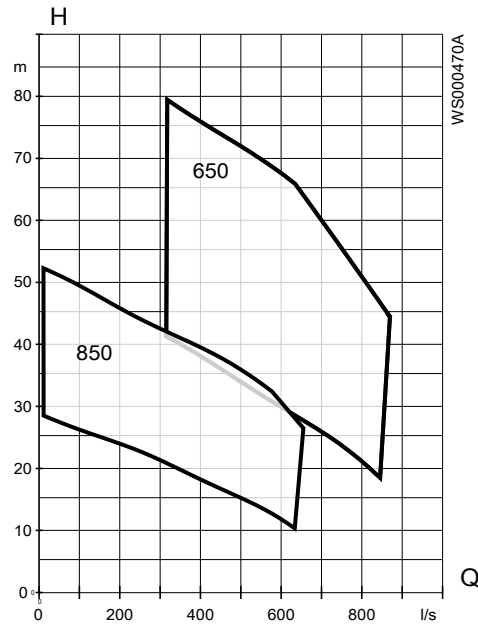


Figure 8: C3351, 50 Hz, medium voltage

C3356 Motor rating and performance, 50 Hz

Low voltage

Table 21: C3356, 50 Hz, low voltage

Curve / impeller no.	Rotations per minute	Drive unit	Voltage, V	Rated power, kW	Rated current, A	Starting current, A	Power factor $\cos \varphi$
610	985	605 / 615	400	58	118	660	0.78
		665 / 675	400	75	150	835	0.79
		665 / 675	400	90	185	1160	0.76
		705 / 715	400	100	202	1150	0.78
		706 / 716	400	100	206	1130	0.76
		735 / 745	400	140	268	1545	0.81
		736 / 746	400	140	258	1540	0.83
810	730	605 / 615	400	45	95	425	0.77
		665 / 675	400	55	115	525	0.77

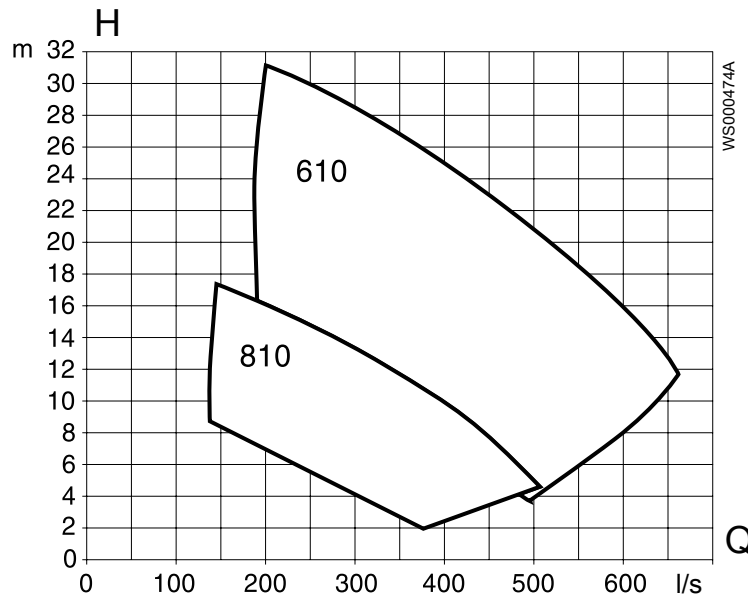


Figure 9: C3356, 50 Hz, low voltage

C3400 motor rating and performance, 50 Hz

Low voltage

Table 22: C3400, 50 Hz, low voltage

Curve / impeller no.	Rotations per minute	Drive unit	Voltage, V	Rated power, kW	Rated current, A	Starting current, A	Power factor $\cos \varphi$
1230	490	705 / 715	400	30	81	289	0.60
		705 / 715	400	40	110	390	0.59
		706 / 716	400	30	79	355	0.60
		706 / 716	400	40	101	390	0.64
1030	590	705 / 715	400	40	88	385	0.73
		705 / 715	400	60	135	550	0.71
		706 / 716	400	40	86	360	0.72
		706 / 716	400	60	138	510	0.68
		735 / 745	400	90	227	940	0.64
		736 / 746	400	90	220	730	0.65
830	730	705 / 715	400	90	182	775	0.79
		706 / 716	400	55	106	525	0.80
		706 / 716	400	90	184	705	0.77
		735 / 745	400	125	245	1065	0.81
		736 / 746	400	125	245	985	0.79
		765 / 775	400	150	292	1330	0.81
		766 / 776	400	150	296	1235	0.79
		805 / 815	400	160	305	1360	0.81
630	990	805 / 815	400	180	330	1765	0.83
		835 / 845	400	250	465	2645	0.82
		865 / 875	400	310	575	3370	0.82

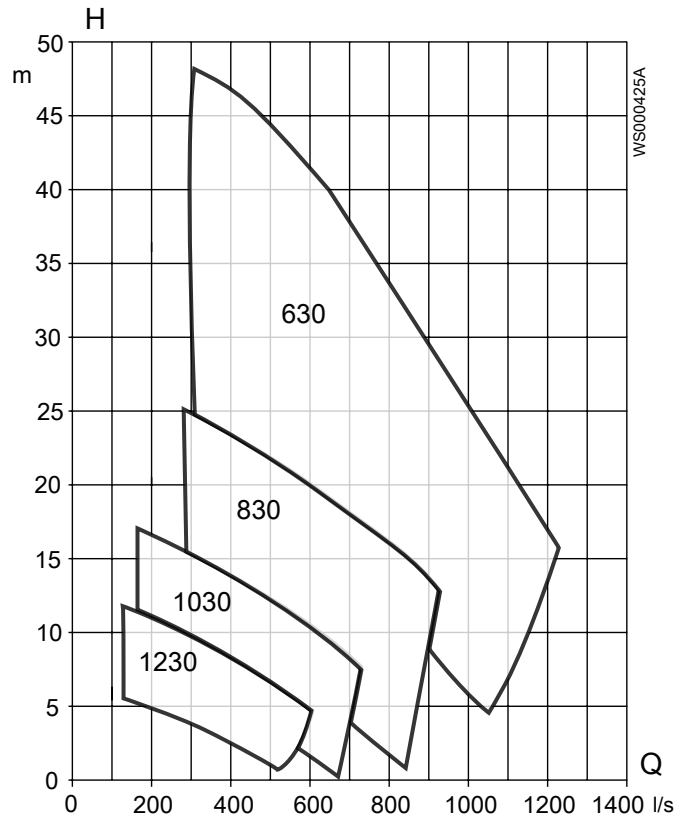


Figure 10: C3400, 50 Hz, low voltage

Medium voltage

Table 23: C3400, 50 Hz, medium voltage

Curve / impeller no.	Rotations per minute	Drive unit	Voltage, V	Rated power, kW	Rated current, A	Starting current, A	Power factor $\cos \varphi$
630	995	862 / 872	6000	180	22	140	0.85
			3300	190	41	262	0.85
		882 / 892	6000	240	29	218	0.84
			3300	250	54	390	0.85
			6000	305	37	292	0.83
		3300	340	72	510	0.86	
830	740	862 / 872	6000	150	19	109	0.81
			3300	180	22	140	0.85

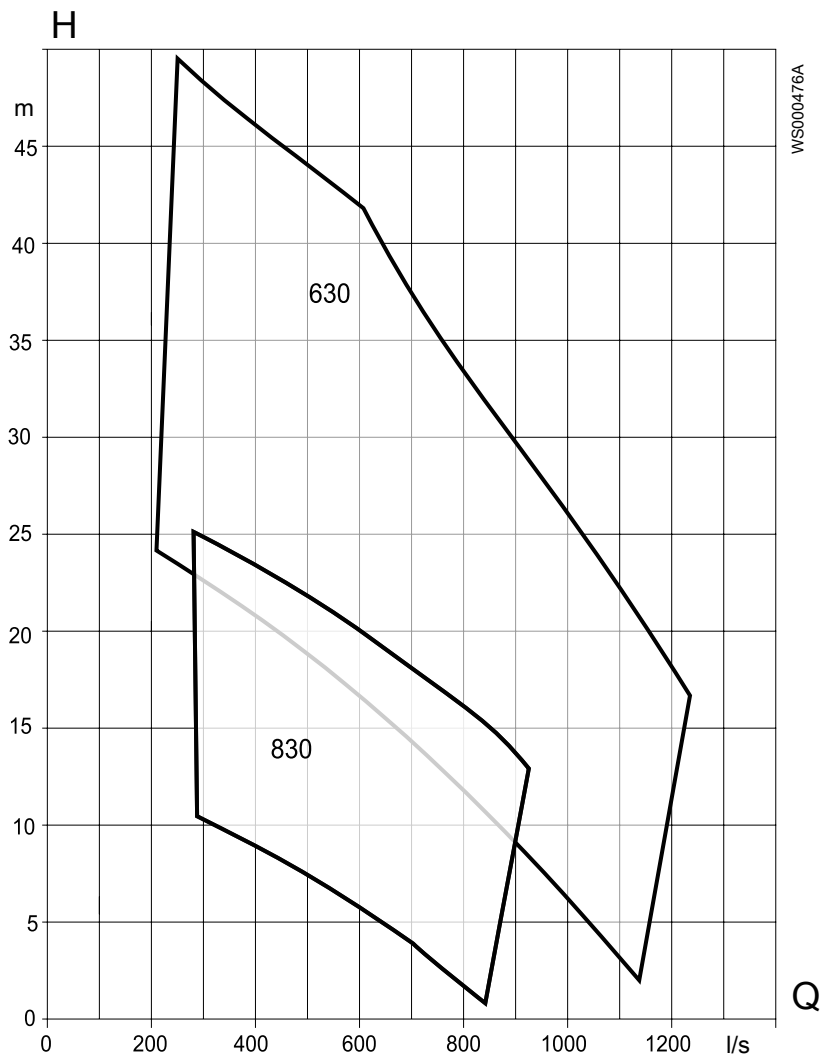


Figure 11: C3400, 50 Hz, medium voltage

C3501 Motor rating and performance, 50 Hz

Low voltage

Curve / impeller no.	Rotations per minute	Drive unit	Voltage, V	Rated power, kW	Rated current, A	Starting current, A	Power factor $\cos \varphi$
1430	415	705 / 715	400	40	127	350	0.53
		706 / 716	400	40	115	330	0.57
		735 / 745	400	60	178	585	0.57
		736 / 746	400	60	181	460	0.54
1230	490	705 / 715	400	40	110	390	0.59
		706 / 716	400	40	101	390	0.64
		735 / 745	400	60	158	550	0.61
		736 / 746	400	60	156	550	0.61
		765 / 775	400	80	207	710	0.62
		766 / 776	400	80	204	715	0.62
		805 / 815	400	100	256	1025	0.61
1030	590	735 / 745	400	90	227	940	0.64
		736 / 746	400	90	220	730	0.65
		765 / 775	400	110	250	1110	0.70
		766 / 776	400	110	251	1040	0.68
		805 / 815	400	125	269	1245	0.73
		835 / 845	400	170	380	1920	0.70
830	730	765 / 775	400	150	292	1330	0.81
		766 / 776	400	150	296	1235	0.79
		835 / 845	400	215	435	2385	0.76
		865 / 875	400	275	535	2730	0.79

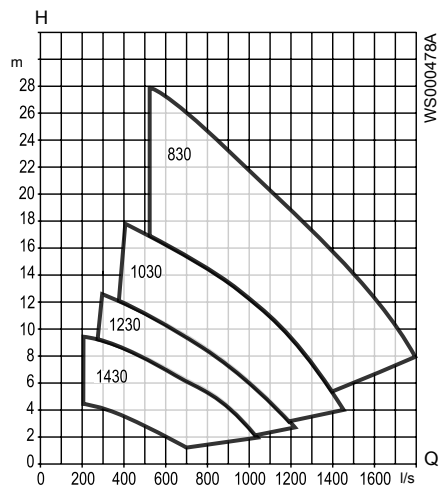
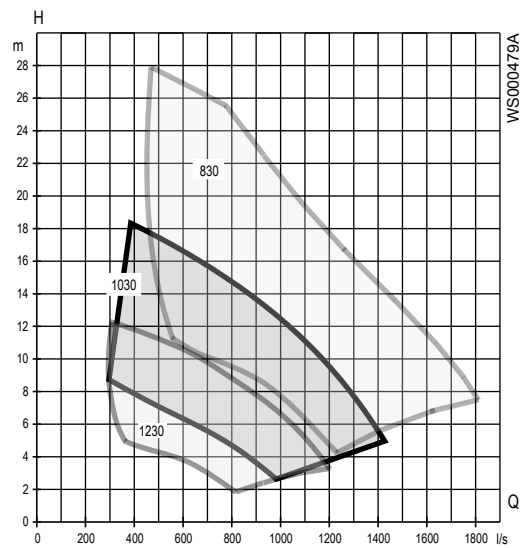


Figure 12: C3501, 50 Hz, low voltage

Medium voltage

Table 24: C3501, 50 Hz, medium voltage

Curve / impeller no.	Rotations per minute	Drive unit	Voltage, V	Rated power, kW	Rated current, A	Starting current, A	Power factor $\cos \varphi$
1230	490	862 / 872	6000	110	19	82	0.62
			3300	120	36	148	0.64
1030	590	862 / 872	6000	130	19	87	0.71
			3300	140	37	162	0.72
		882 / 892	6000	165	23	103	0.74
			3300	175	44	184	0.75
830	740	862 / 872	6000	150	19	109	0.81
			3300	165	38	214	0.81
		882 / 892	6000	185	23	140	0.81
			3300	215	52	320	0.78
			6000	235	30	179	0.79
			3300	250	57	320	0.81

**Figure 13: C3501, 50 Hz, medium voltage**

C3531 Motor rating and performance, 50 Hz

Low voltage

Table 25: C3531, 50 Hz, low voltage

Curve / impeller no.	Rotations per minute	Drive unit	Voltage, V	Rated power, kW	Rated current, A	Starting current, A	Power factor $\cos \varphi$
1440	415	705 / 715	400	40	127	350	0.53
		706 / 716	400	40	115	330	0.57
		735 / 745	400	60	178	585	0.57
		736 / 746	400	60	181	460	0.54
		765 / 775	400	70	195	575	0.61
		766 / 776	400	70	204	555	0.55
1240	490	705 / 715	400	40	110	390	0.59
		706 / 716	400	40	101	390	0.64
		735 / 745	400	60	158	550	0.61
		736 / 746	400	60	156	550	0.61
		765 / 775	400	80	207	710	0.62
		766 / 776	400	80	204	715	0.62
		805 / 815	400	100	256	1025	0.61
		835 / 845	400	140	360	1455	0.61
1040	585	705 / 715	400	60	138	520	0.74
		706 / 716	400	60	138	510	0.68
				40	86	360	0.72
		735 / 745	400	90	222	880	0.68
		736 / 746	400	90	220	730	0.65
		765 / 775	400	110	230	920	0.73
		766 / 776	400	110	251	1040	0.68
		805 / 815	400	125	275	1170	0.75
		835 / 845	400	170	380	1800	0.73
		865 / 875	400	215	460	1915	0.76
840	735	735 / 745	400	125	245	1065	0.81
		736 / 746	400	125	245	985	0.79
		805 / 815	400	160	305	1360	0.81
		835 / 845	400	215	460	2385	0.77
		865 / 875	400	275	535	2730	0.79
		905 / 915	400	340	610	3295	0.84
		935 / 945	400	400	730	4510	0.82

Curve / impeller no.	Rotations per minute	Drive unit	Voltage, V	Rated power, kW	Rated current, A	Starting current, A	Power factor $\cos \varphi$
640	990	835 / 845	400	250	475	2495	0.84
		865 / 875	400	310	575	3370	0.82
		905 / 915	400	375	700	3935	0.85
		935 / 945	400	460	855	4880	0.85
		935 / 945	400	560	1025	5250	0.87
		965 / 975	400	680	960	5920	0.85

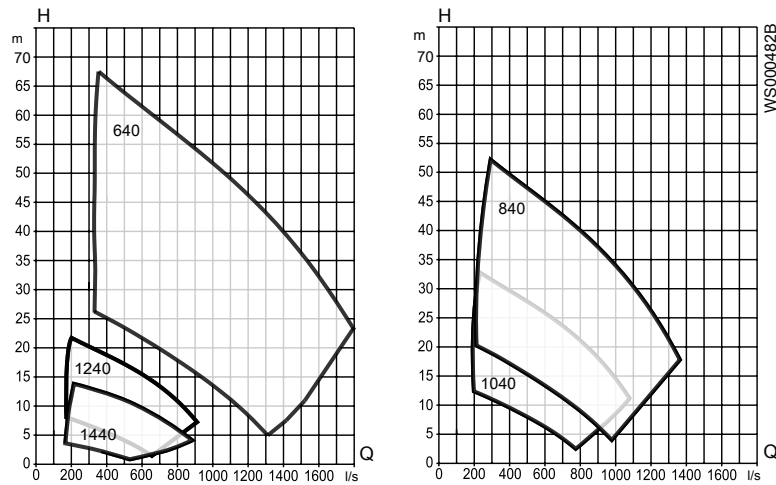


Figure 14: C3531, 50 Hz, low voltage

Medium voltage

Table 26: C3531, 50 Hz, medium voltage

Curve / impeller no.	Rotations per minute	Drive unit	Voltage, V	Rated power, kW	Rated current, A	Starting current, A	Power factor $\cos \varphi$
1240	495	862 / 872	6000	110	19	82	0.62
			3300	120	36	148	0.64
		882 / 892	6000	130	21	94	0.67
			3300	140	40	142	0.68
1040	595	862 / 872	6000	130	21	94	0.67
			3300	140	40	172	0.68
		882 / 892	6000	165	23	103	0.74
			3300	175	44	184	0.75
			6000	205	28	148	0.74
			3300	225	56	276	0.75

Curve / impeller no.	Rotations per minute	Drive unit	Voltage, V	Rated power, kW	Rated current, A	Starting current, A	Power factor $\cos \varphi$		
840	745	862 / 872	6000	150	19	109	0.81		
			3300	165	38	214	0.81		
		882 / 892	6000	185	23	140	0.81		
			3300	215	435	320	0.76		
			6000	235	30	179	0.79		
			3300	250	57	320	0.81		
		950 / 960	6000	215	27	151	0.83		
			3300	225	51	291	0.82		
			6000	270	33	190	0.82		
			3300	290	65	360	0.82		
		985 / 995	6000	330	42	253	0.81		
			3300	350	79	460	0.82		
			6000	380	47	285	0.82		
			3300	400	89	495	0.83		
		640	990	882 / 892	6000	240	29	218	0.84
					3300	250	54	390	0.85
6000	305				37	292	0.83		
3300	340				72	510	0.86		
950 / 960	6000			250	30	178	0.84		
	3300			265	58	330	0.84		
	6000			315	38	228	0.85		
	3300			340	76	455	0.82		
985 / 995	6000			380	46	288	0.84		
	3300			400	86	490	0.86		
	6000			445	54	340	0.84		
	3300			470	104	655	0.83		
	3300			520	112	695	0.85		
	6000			520	61	370	0.86		

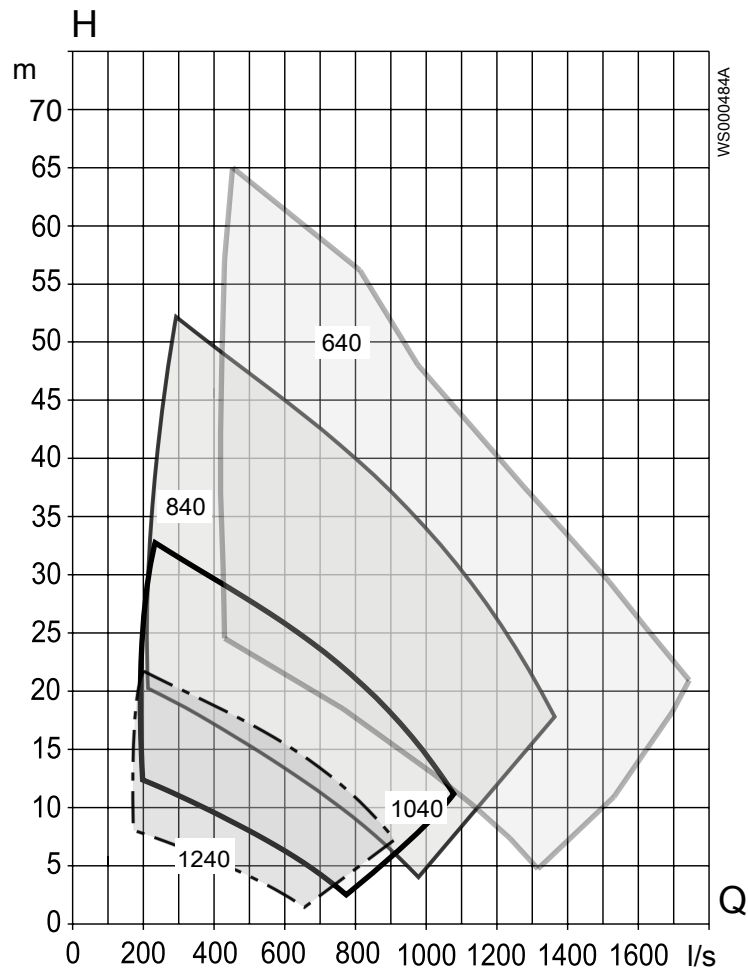


Figure 15: C3531, 50 Hz, medium voltage

C3602 Motor rating and performance, 50 Hz

Low voltage

Table 27: C3602, 50 Hz, low voltage

Curve / impeller no.	Rotations per minute	Drive unit	Voltage, V	Rated power, kW	Rated current, A	Starting current, A	Power factor $\cos \varphi$
1440	415	735 / 745	400	60	178	585	0.57
		736 / 746	400	60	181	460	0.54
		765 / 775	400	70	193	610	0.59
		766 / 776	400	70	204	555	0.55
		805 / 815	400	80	215	830	0.59
1240	490	735 / 745	400	60	158	550	0.61
		736 / 746	400	60	156	550	0.61
		765 / 775	400	80	207	710	0.62
		766 / 776	400	80	204	715	0.62
		805 / 815	400	100	256	1025	0.61
		835 / 845	400	140	360	1455	0.61
1040	590	765 / 775	400	110	250	1110	0.70
		766 / 776	400	110	251	1040	0.68
		805 / 815	400	125	269	1245	0.73
		835 / 845	400	170	380	1920	0.70
		865 / 875	400	215	450	2045	0.74
		905 / 915	400	250	475	2465	0.80
840	740	835 / 845	400	215	435	2385	0.76
		865 / 875	400	275	535	2730	0.79
		905 / 915	400	340	610	3295	0.84
		935 / 945	400	400	730	4510	0.82
			400	460	835	5180	0.83

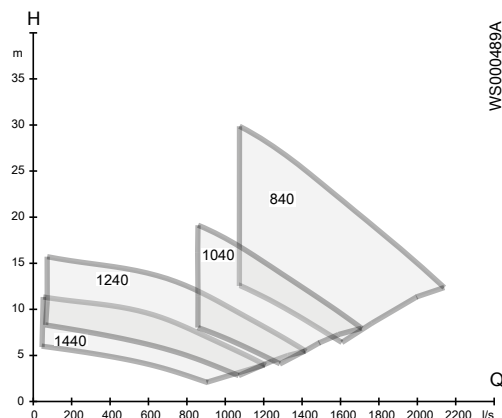


Figure 16: C3602, 50 Hz, low voltage

Medium voltage

Table 28: C3602, 50 Hz, medium voltage

Curve / impeller no.	Rotations per minute	Drive unit	Voltage, V	Rated power, kW	Rated current, A	Starting current, A	Power factor $\cos \varphi$
1440	420	862 / 872	6000	80	14	48	0.62
			3300	85	29	100	0.57
1240	495	862 / 872	6000	110	19	82	0.62
			3300	120	36	148	0.64
		882 / 892	6000	130	21	94	0.67
			3300	140	40	172	0.68
1040	595	862 / 872	6000	130	19	87	0.71
			3300	140	37	162	0.72
		882 / 892	6000	165	23	103	0.74
			3300	175	44	184	0.75
			6000	205	28	148	0.74
			3300	225	56	276	0.75
840	745	882 / 892	6000	185	23	140	0.81
			3300	215	52	320	0.78
			6000	235	30	179	0.79
			3300	250	57	320	0.81
		950 / 960	6000	215	27	151	0.83
			3300	225	51	291	0.82
			6000	270	33	190	0.82
			3300	290	65	360	0.82
		985 / 995	6000	330	42	253	0.81
			3300	350	79	460	0.82
			6000	380	47	285	0.82
			3300	400	89	495	0.83
			6000	440	55	335	0.81
			3300	460	102	570	0.83

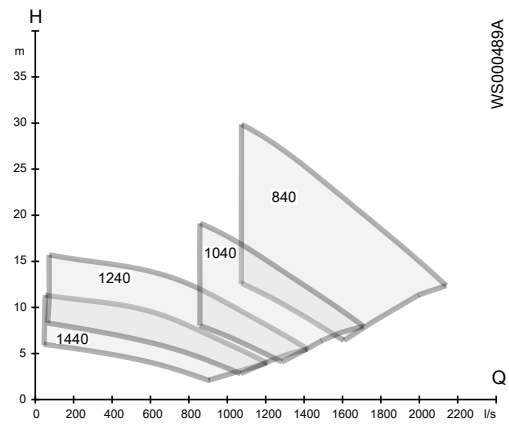


Figure 17: C3602, 50 Hz, medium voltage

C3800 Motor rating and performance, 50 Hz

Low voltage

Table 29: C3800, 50 Hz, low voltage

Curve / impeller no.	Rotations per minute	Drive unit	Voltage, V	Rated power, kW	Rated current, A	Starting current, A	Power factor $\cos \varphi$
1240	495	905 / 915	400	225	455	1690	0.77
			400	275	575	2490	0.73
		935 / 945	400	325	665	2780	0.75
1040	595	905 / 915	400	325	615	3075	0.80
			935 / 945	400	375	735	4080
		965 / 975	400	450	815	3470	0.84
			400	550	1045	5555	0.79
840	740	935 / 945	400	400	730	4510	0.82
			400	460	835	5180	0.83
		965 / 975	400	560	985	5875	0.85

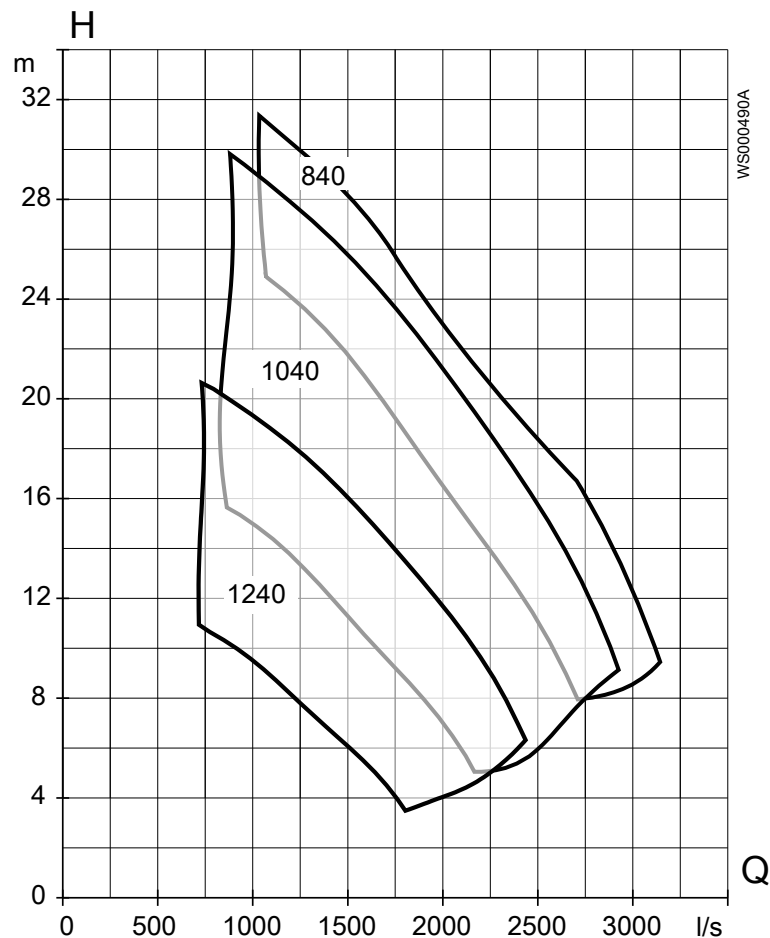


Figure 18: C3800, 50 Hz, low voltage

Medium voltage

Table 30: C3800, 50 Hz, medium voltage

Curve / impeller no.	Rotations per minute	Drive unit	Voltage, V	Rated power, kW	Rated current, A	Starting current, A	Power factor $\cos \varphi$
1240	495	950 / 960	3300	170	45	195	0.71
			3300	210	54	231	0.73
		985 / 995	3300	250	64	275	0.73
			3300	285	73	320	0.73
1040	595	985 / 995	3300	285	65	335	0.82
			3300	320	73	405	0.81
			3300	400	90	500	0.82
840	740	985 / 995	3300	400	89	495	0.83
			3300	460	102	570	0.83

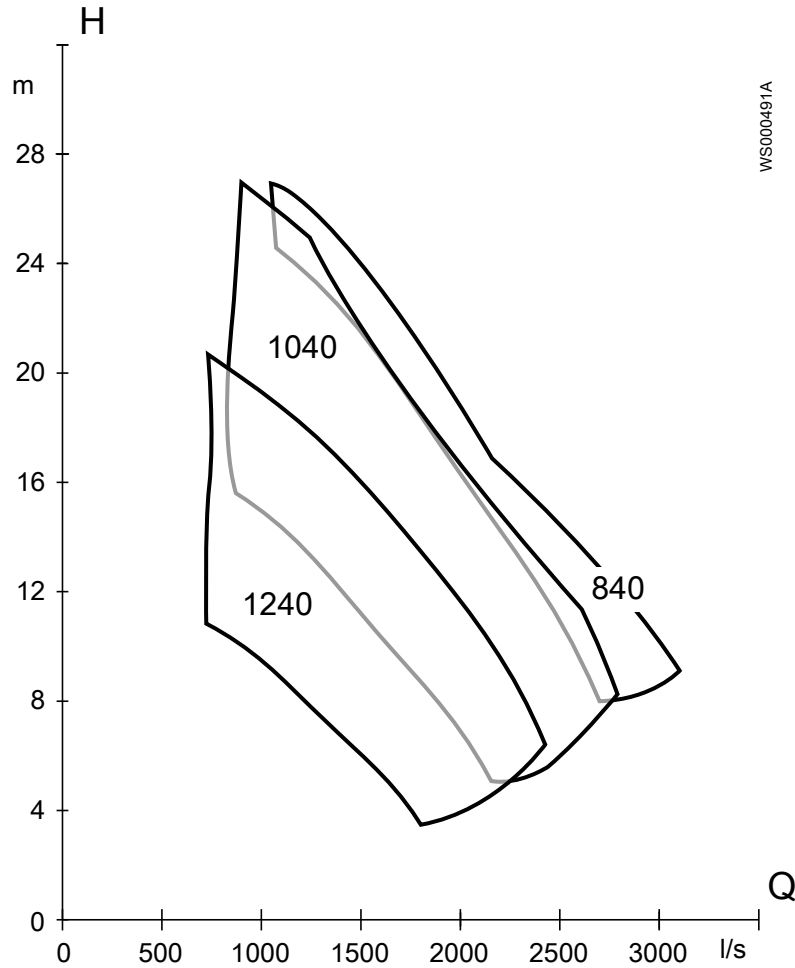


Figure 19: C3800, 50 Hz, medium voltage

C3231 Motor rating and performance, 60 Hz

Low voltage

Table 31: C3231, 60 Hz, low voltage

Curve / impeller no.	Rotations per minute	Drive unit	Voltage, V	Rated power, HP (kW)	Rated current, A	Starting current, A	Power factor $\cos \varphi$		
430	1780	665 / 675	460	160 (119)	190	950	0.83		
			600	160 (119)	141	1095	0.86		
		705 / 715	460	185 (138)	220	1525	0.85		
			600	185 (138)	170	1205	0.84		
		706 / 716	460	185 (138)	210	1290	0.86		
			600	185 (138)	163	1020	0.85		
		735 / 745	460	250 (186)	284	2030	0.88		
			600	250 (186)	223	1705	0.86		
		736 / 746	460	250 (186)	276	1800	0.88		
			600	250 (186)	217	1515	0.85		
		765 / 775	460	338 (250)	385	2955	0.86		
			600	338 (250)	293	2160	0.87		
		766 / 776	460	335 (250)	362	1940	0.90		
			600	335 (250)	293	1910	0.85		
		455	1780	705 / 715	460	185 (138)	220	1525	0.85
					600	185 (138)	170	1205	0.84
706 / 716	460			185 (138)	210	1290	0.86		
	600			185 (138)	163	1020	0.85		
735 / 745	460			250 (186)	284	2030	0.88		
	600			250 (186)	223	1705	0.86		
736 / 746	460			250 (186)	276	1800	0.88		
	600			250 (186)	217	1515	0.85		
765 / 775	460			338 (250)	385	2955	0.86		
	600			338 (250)	293	2160	0.87		
766 / 776	460			335 (250)	362	1940	0.90		
	600			335 (250)	293	1910	0.85		
630	1185	605 / 615	460	90 (67)	115	685	0.81		
			600	90 (67)	92	580	0.77		
655	1185	605 / 615	460	90 (67)	115	685	0.81		
			600	90 (67)	92	580	0.77		

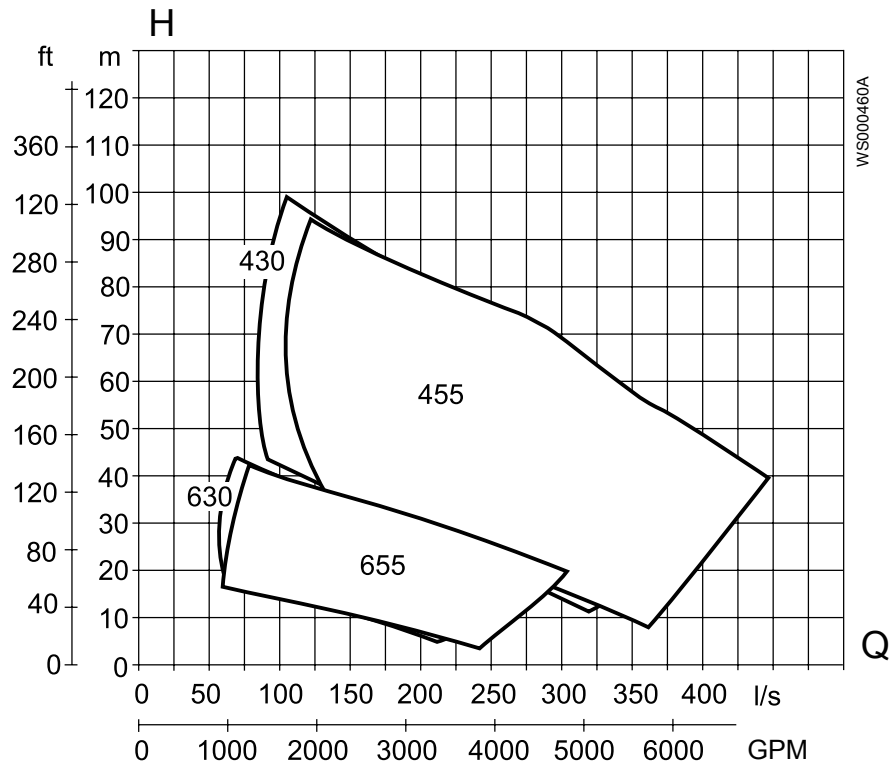


Figure 20: C3231, 60 Hz, low voltage

C3240 Motor rating and performance, 60 Hz

Low voltage

Table 32: C3240, 60 Hz, low voltage

Curve / impeller no.	Rotations per minute	Drive unit	Voltage, V	Rated power, HP	Rated current, A	Starting current, A	Power factor $\cos \varphi$
450	1800	805 / 815	460	335	375	2925	0.89
			600	335	288	2295	0.89
		835 / 845	460	455	510	4515	0.88
			600	455	410	3950	0.84
		865 / 875	460	580	635	5380	0.90
			600	580	505	4755	0.86

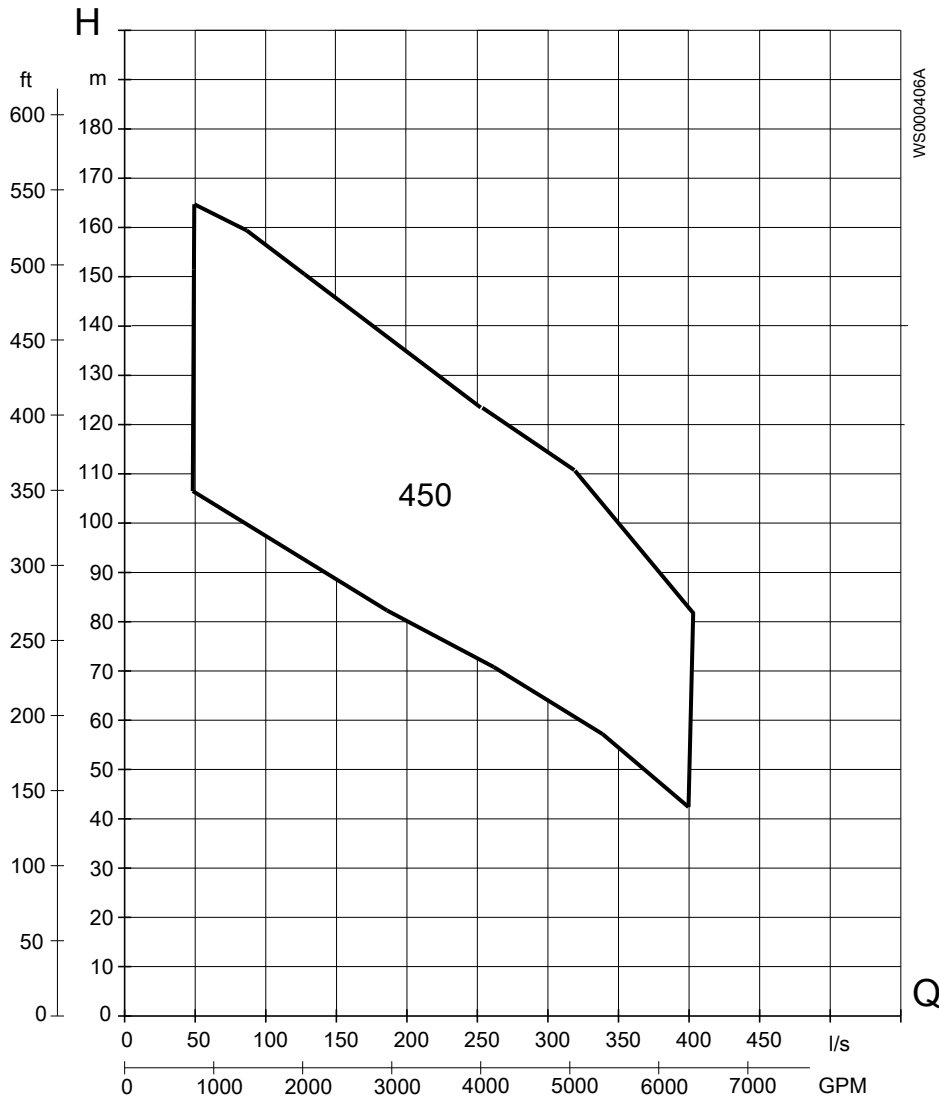


Figure 21: C3240, 60 Hz, low voltage

Medium voltage

Table 33: C3240, 60 Hz, medium voltage

Curve / impeller no.	Rotations per minute	Drive unit	Voltage, V	Rated power, HP	Rated current, A	Starting current, A	Power factor $\cos \varphi$
450	1800	862 / 872	4160	340	43	345	0.85
		882 / 892	4160	450	56	445	0.87
			4160	540	68	505	0.85

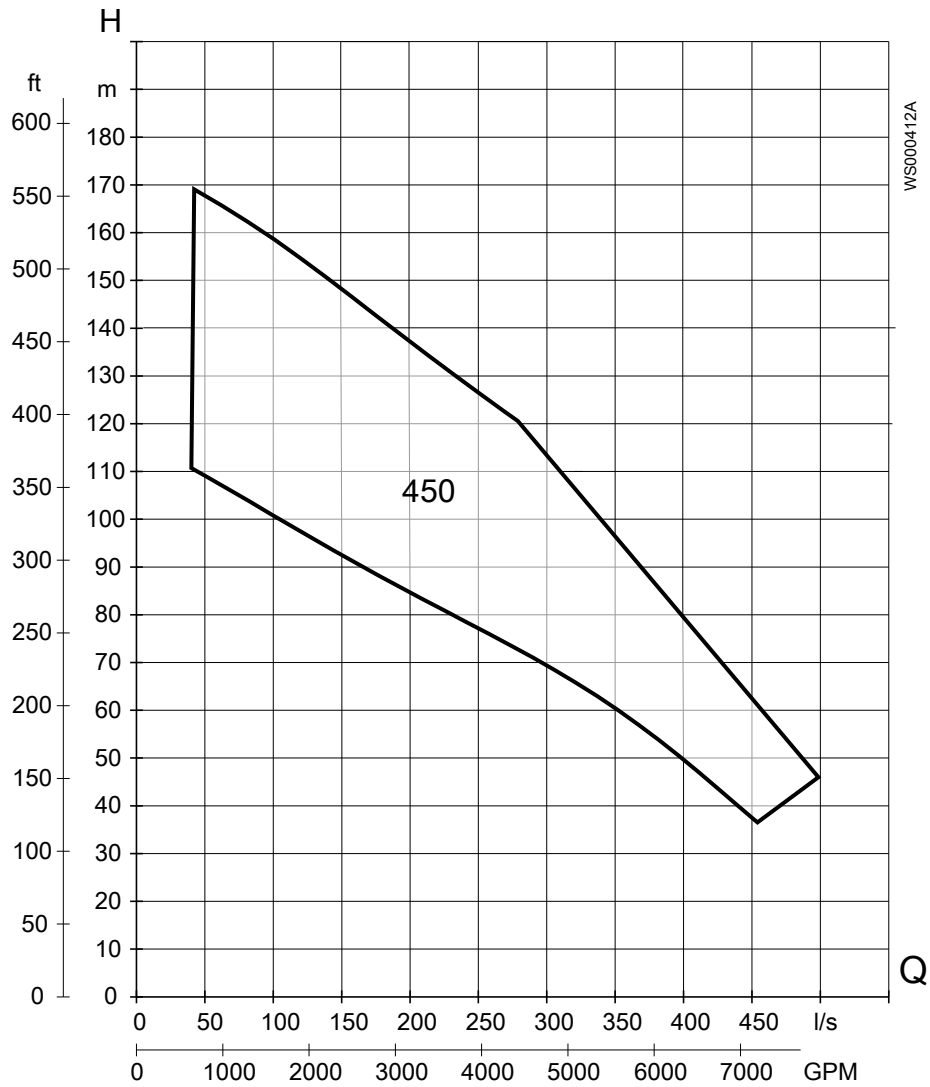


Figure 22: C3240, 60 Hz, medium voltage

C3306 Motor rating and performance, 60 Hz

Low voltage

Table 34: C3306, 60 Hz, low voltage

Curve / impeller no.	Rotations per minute	Drive unit	Voltage, V	Rated power, HP (kW)	Rated current, A	Starting current, A	Power factor $\cos \varphi$		
610	1185	665 / 675	460	110 (82)	139	865	0.81		
			600	110 (82)	112	745	0.77		
		665 / 675	460	140 (104)	179	1195	0.79		
			600	140 (104)	137	905	0.79		
		705 / 715	460	150 (112)	190	1155	0.80		
			600	150 (112)	150	940	0.78		
		706 / 716	460	150 (112)	196	1130	0.78		
			600	150 (112)	139	785	0.82		
		735 / 745	460	215 (160)	260	1555	0.83		
			600	215 (160)	206	1305	0.80		
		736 / 746	460	215 (160)	248	1540	0.85		
			600	215 (160)	187	1295	0.82		
		765 / 775	460	280 (209)	345	2230	0.80		
			600	280 (209)	263	1640	0.81		
		766 / 776	460	280 (209)	313	1785	0.88		
			600	280 (209)	251	1640	0.84		
		631	1185	665 / 675	460	110 (82)	139	865	0.81
					600	110 (82)	112	745	0.77
665 / 675	460			140 (104)	179	1195	0.79		
	600			140 (104)	137	905	0.79		
705 / 715	460			150 (112)	190	1155	0.80		
	600			150 (112)	150	940	0.78		
706 / 716	460			150 (112)	196	1130	0.78		
	600			150 (112)	139	785	0.82		
735 / 745	460			215 (160)	260	1555	0.83		
	600			215 (160)	206	1305	0.80		
736 / 746	460			215 (160)	248	1540	0.85		
	600			215 (160)	187	1295	0.82		
765 / 775	460			280 (209)	345	2230	0.80		
	600			280 (209)	263	1640	0.81		
766 / 776	460			280 (209)	313	1785	0.88		
	600			280 (209)	251	1640	0.84		

Curve / impeller no.	Rotations per minute	Drive unit	Voltage, V	Rated power, HP (kW)	Rated current, A	Starting current, A	Power factor $\cos \varphi$
810	880	605 / 615	460	70 (52)	93	440	0.79
			600	70 (52)	74	385	0.75
		665 / 675	460	85 (63)	111	550	0.79
			600	85 (63)	89	400	0.75
		665 / 675	460	100 (75)	128	665	0.80
			600	100 (75)	102	575	0.77
831	880	605 / 615	460	70 (52)	93	440	0.79
			600	70 (52)	74	385	0.75
		665 / 675	460	85 (63)	111	550	0.79
			600	85 (63)	89	400	0.75
		665 / 675	460	100 (75)	128	665	0.80
			600	100 (75)	102	575	0.77

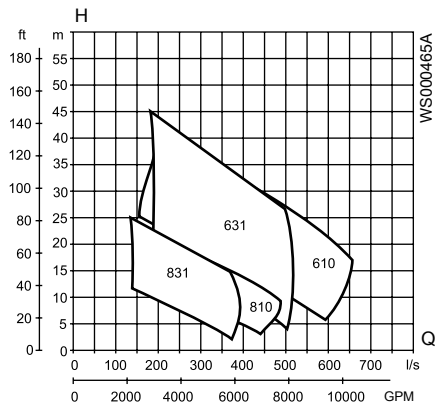


Figure 23: C3306, 60 Hz, low voltage

C3312 Motor rating and performance, 60 Hz

Low voltage

Table 35: C3312, 60 Hz, low voltage

Curve / impeller no.	Rotations per minute	Drive unit	Voltage, V	Rated power, HP (kW)	Rated current, A	Starting current, A	Power factor cos φ		
830	885	705 / 715	460	90 (67)	112	515	0.83		
			600	90 (67)	87	445	0.82		
			460	135 (101)	173	790	0.81		
			600	135 (101)	135	625	0.8		
		706 / 716	460	90 (67)	109	530	0.82		
			600	90 (67)	86	445	0.8		
			460	135 (101)	173	710	0.79		
			600	135 (101)	134	565	0.78		
		735 / 745	460	185 (138)	231	1090	0.82		
			600	185 (138)	178	840	0.82		
		736 / 746	460	185 (138)	228	995	0.81		
			600	185 (138)	175	765	0.81		
		765 / 775	460	230 (172)	285	1355	0.82		
			600	230 (172)	218	1025	0.82		
		766 / 776	460	230 (172)	284	1250	0.81		
			600	230 (172)	226	1055	0.78		
		630	1185	735 / 745	460	215 (160)	260	1555	0.83
					600	215 (160)	206	1305	0.80
736 / 746	460			215 (160)	248	1540	0.85		
	600			215 (160)	187	1295	0.82		
765 / 775	460			280 (209)	345	2230	0.80		
	600			280 (209)	263	1640	0.81		
766 / 776	460			280 (209)	313	1785	0.88		
	600			280 (209)	251	1640	0.84		
835 / 845	460			385 (250)	455	2670	0.84		
	600			385 (250)	345	1975	0.84		
865 / 875	460			470 (350)	555	3405	0.84		
	600			470 (350)	435	2835	0.84		

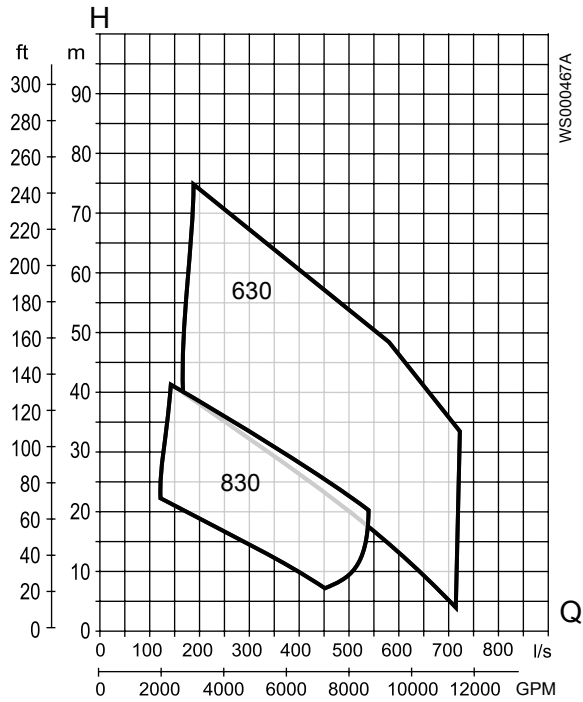


Figure 24: C3312, 60 Hz, low voltage

Medium voltage

Table 36: C3312, 60 Hz, medium voltage

Curve / impeller no.	Rotations per minute	Drive unit	Voltage, V	Rated power, HP	Rated current, A	Starting current, A	Power factor $\cos \varphi$
630	1195	862 / 872	4160	310	39	269	0.87
		882 / 892	4160	405	52	395	0.85
			4160	525	66	490	0.86

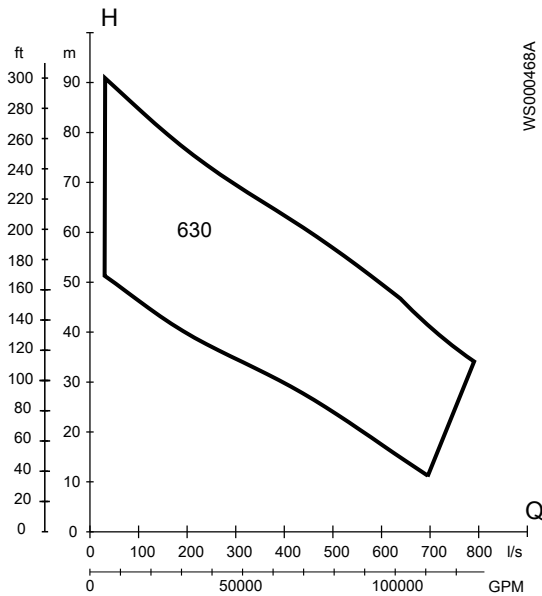


Figure 25: C3312, 60 Hz, medium voltage

C3351 Motor rating and performance, 60 Hz

Low voltage

Table 37: C3351, 60 Hz, low voltage

Curve / impeller no.	Rotations per minute	Drive unit	Voltage, V	Rated power, HP	Rated current, A	Starting current, A	Power factor $\cos \varphi$
650	995	905 / 915	4160	580	675	4170	0.84
		935 / 945	4160	720	830	5175	0.84
			4160	860	970	5570	0.86
		965 / 975	4160	1040	1145	5985	0.88
850	895	905 / 915	4160	430	495	2755	0.85
		935 / 945	4160	525	605	3340	0.85
			4160	620	720	4570	0.84

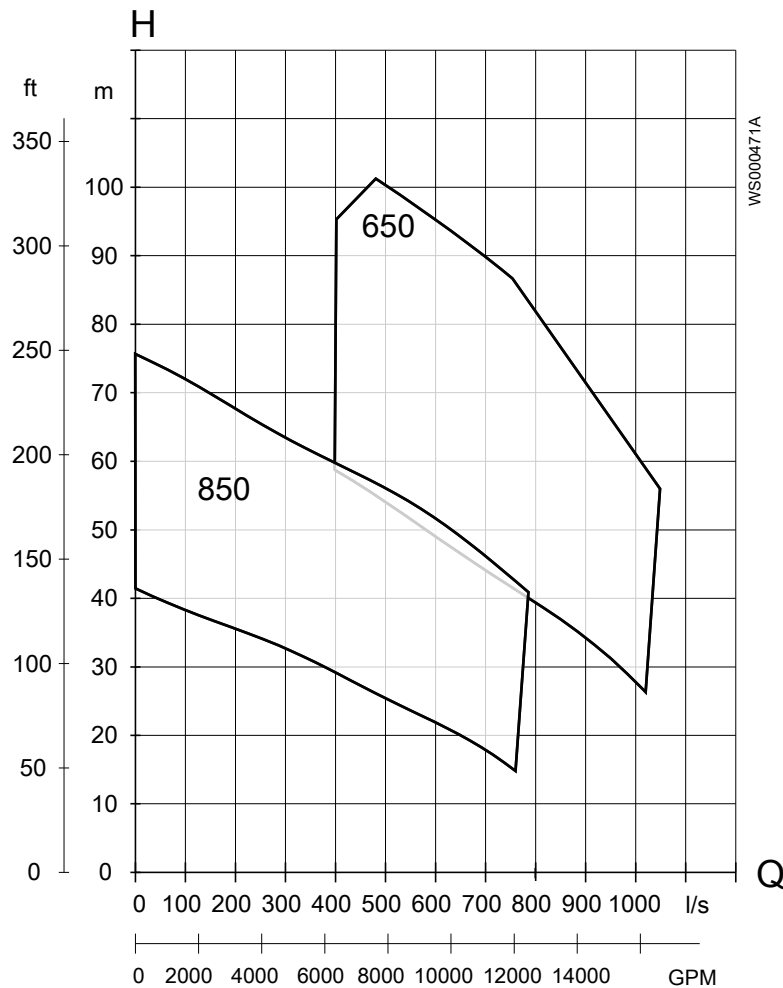


Figure 26: C3351, 60 Hz, low voltage

Medium voltage

Table 38: C3351, 60 Hz, medium voltage

Curve / impeller no.	Rotations per minute	Drive unit	Voltage, V	Rated power, HP	Rated current, A	Starting current, A	Power factor $\cos \varphi$
650	1195	985 / 995	4160	630	83	545	0.82
			4160	730	94	625	0.84
			4160	800	101	660	0.86
850	895	950 / 960	4160	350	47	284	0.82
			4160	450	60	365	0.82
		985 / 995	4160	540	72	455	0.81

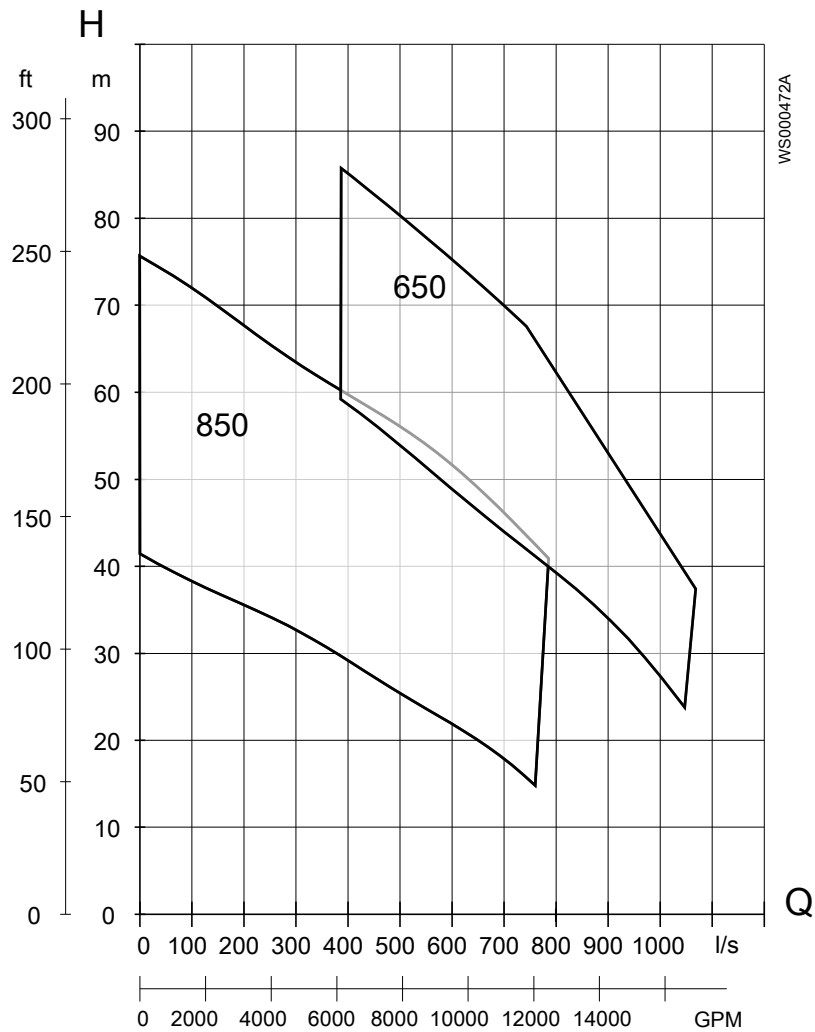


Figure 27: C3351, 60 Hz, medium voltage

C3356 Motor rating and performance, 60 Hz

Low voltage

Table 39: C3356, 60 Hz, low voltage

Curve / impeller no.	Rotations per minute	Drive unit	Voltage, V	Rated power, HP (kW)	Rated current, A	Starting current, A	Power factor $\cos \varphi$
610	1185	665 / 675	460	110 (82)	139	865	0.81
			600	110 (82)	112	745	0.77
		665 / 675	460	140 (104)	179	1195	0.79
			600	140 (104)	137	905	0.79
		705 / 715	460	150 (112)	190	1155	0.80
			600	150 (112)	150	940	0.78
		706 / 716	460	150 (112)	196	1130	0.78
			600	150 (112)	139	785	0.82
		735 / 745	460	215 (160)	260	1555	0.83
			600	215 (160)	206	1305	0.80
		736 / 746	460	215 (160)	248	1540	0.85
			600	215 (160)	187	1295	0.82
		765 / 775	460	280 (209)	345	2230	0.80
			600	280 (209)	263	1640	0.81
		766 / 776	460	280 (209)	313	1785	0.88
			600	280 (209)	251	1640	0.84
820	880	605 / 615	460	70 (52)	93	440	0.79
			600	70 (52)	74	385	0.75
		665 / 675	460	85 (63)	111	550	0.79
			600	85 (63)	89	480	0.75
		665 / 675	460	100 (75)	128	660	0.80
			600	100 (75)	102	575	0.77
		705 / 715	460	135 (101)	173	790	0.81
			600	135 (101)	135	625	0.80
		706 / 716	460	135 (101)	173	710	0.79
			600	135 (101)	134	565	0.78
820	885	706 / 716	460	90 (67)	109	530	0.82
			600	90 (67)	86	445	0.80

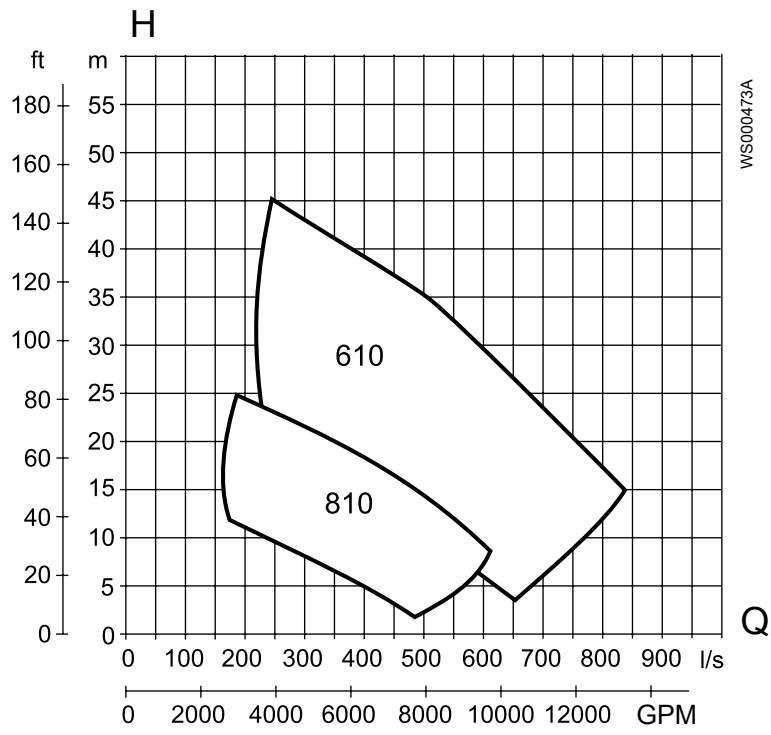


Figure 28: C3356, 60 Hz, low voltage

C3400 motor rating and performance, 60 Hz

Low voltage

Table 40: C3400, 60 Hz, low voltage

Curve / impeller no.	Rotations per minute	Drive unit	Voltage, V	Rated power, HP (kW)	Rated current, A	Starting current, A	Power factor $\cos \varphi$		
1430	505	705 / 715	460	60 (45)	110	375	0.57		
			600	60 (45)	85	297	0.57		
		706 / 716	460	60 (45)	107	330	0.58		
			600	60 (45)	86	269	0.56		
1230	590	705 / 715	460	60 (45)	103	395	0.61		
			600	60 (45)	76	282	0.63		
		706 / 716	460	60 (45)	95	395	0.65		
			600	60 (45)	74	310	0.64		
		735 / 745	460	90 (67)	148	565	0.63		
			600	90 (67)	116	445	0.62		
		736 / 746	460	90 (67)	145	555	0.63		
			600	90 (67)	114	440	0.61		
		765 / 775	460	120 (89)	195	725	0.63		
			600	120 (89)	154	590	0.61		
		766 / 776	460	120 (89)	190	715	0.63		
			600	120 (89)	151	580	0.61		
		1030	710	735 / 745	460	135 (101)	211	960	0.66
					600	135 (101)	167	775	0.64
736 / 746	460			135 (101)	204	735	0.67		
	600			135 (101)	167	620	0.63		
765 / 775	460			170 (127)	231	890	0.75		
	600			170 (127)	184	825	0.72		
766 / 776	460			170 (127)	241	1050	0.71		
	600			170 (127)	181	765	0.72		
835 / 845	460			170 (127)	231	890	0.75		
	600			170 (127)	184	825	0.72		
865 / 875	460			185 (138)	253	1275	0.74		
	600			185 (138)	210	1180	0.68		

Curve / impeller no.	Rotations per minute	Drive unit	Voltage, V	Rated power, HP (kW)	Rated current, A	Starting current, A	Power factor $\cos \varphi$
830	885	735 / 745	460	185 (138)	231	1085	0.82
			600	185 (138)	178	840	0.82
		736 / 746	460	185 (138)	228	995	0.81
			600	185 (138)	175	765	0.81
		765 / 775	460	230 (172)	285	1355	0.82
			600	230 (172)	218	1025	0.82
		766 / 776	460	230 (172)	284	1250	0.81
			600	230 (172)	226	1055	0.78
		835 / 845	460	335 (310)	430	2425	0.78
			600	335 (310)	340	2045	0.75
		865 / 875	460	415 (310)	515	2785	0.8
			600	415 (310)	395	2150	0.8
630	1190	735 / 745	460	385 (287)	455	2670	0.84
			600	385 (287)	345	1975	0.84
		736 / 746	460	215 (160)	248	1540	0.85
			600	215 (160)	187	1295	0.82
		765 / 775	460	470 (351)	555	3405	0.84
			600	470 (351)	435	2835	0.82
		766 / 776	460	280 (209)	313	1785	0.88
			600	280 (209)	251	1640	0.84

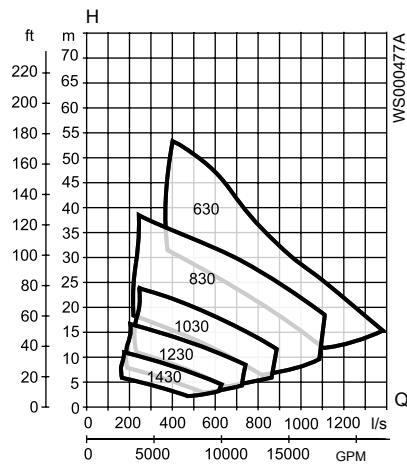


Figure 29: C3400, 60 Hz, low voltage

Medium voltage

Table 41: C3400, 60 Hz, medium voltage

Curve / impeller no.	Rotations per minute	Drive unit	Voltage, V	Rated power, HP	Rated current, A	Starting current, A	Power factor $\cos \varphi$
1030	710	862 / 872	4160	220	33	147	0.75

Curve / impeller no.	Rotations per minute	Drive unit	Voltage, V	Rated power, HP	Rated current, A	Starting current, A	Power factor $\cos \varphi$
830	895	862 / 872	4160	250	34	213	0.81
			4160	330	46	305	0.79
		4160	400	55	330	0.80	
630	1195	882 / 892	4160	405	52	395	0.85
			4160	525	66	490	0.86

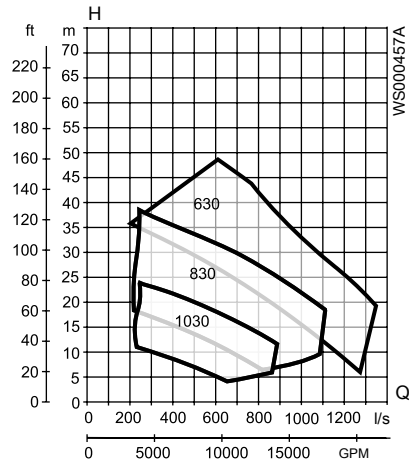


Figure 30: C3400, 60 Hz, medium unit voltage

C3501 Motor rating and performance, 60 Hz

Low voltage

Table 42: C3501, 60 Hz, low voltage

Curve / impeller no.	Rotations per minute	Drive unit	Voltage, V	Rated power, HP	Rated current, A	Starting current, A	Power factor $\cos \varphi$		
1430	505	705 / 715	460	60 (45)	110	375	0.57		
			600	60 (45)	85	297	0.57		
		706 / 716	460	60 (45)	107	330	0.58		
			600	60 (45)	86	269	0.56		
		735 / 745	460	90 (67)	157	515	0.60		
			600	90 (67)	123	420	0.58		
		736 / 746	460	90 (67)	167	460	0.55		
			600	90 (67)	134	375	0.53		
		765 / 775	460	110 (82)	190	625	0.60		
			600	110 (82)	153	540	0.57		
		766 / 776	460	110 (82)	196	555	0.57		
			600	110 (82)	163	480	0.53		
		805 / 815	460	130 (97)	214	855	0.62		
			600	130 (97)	173	730	0.59		
		1230	590	735 / 745	460	90 (67)	148	565	0.63
					600	90 (67)	116	445	0.62
736 / 746	460			90 (67)	145	555	0.63		
	600			90 (67)	114	440	0.61		
765 / 775	460			120 (89)	195	725	0.63		
	600			120 (89)	154	590	0.61		
766 / 776	460			120 (89)	190	715	0.63		
	600			120 (89)	151	580	0.61		
805 / 815	460			150 (112)	243	1055	0.62		
	600			150 (112)	191	860	0.61		
835 / 845	460			215 (160)	345	1500	0.62		
	600			215 (160)	279	1270	0.59		

Curve / impeller no.	Rotations per minute	Drive unit	Voltage, V	Rated power, HP	Rated current, A	Starting current, A	Power factor $\cos \varphi$
1030	710	765 / 775	460	170 (127)	231	890	0.75
			600	170 (127)	184	825	0.72
		766 / 776	460	170 (127)	241	1050	0.71
			600	170 (127)	181	765	0.72
		805 / 815	460	185 (138)	253	1275	0.74
			600	185 (138)	210	1180	0.68
		835 / 845	460	250 (186)	355	1965	0.71
			600	250 (186)	276	1555	0.69
865 / 875	460	325 (242)	430	2095	0.75		
	600	325 (242)	325	1530	0.76		

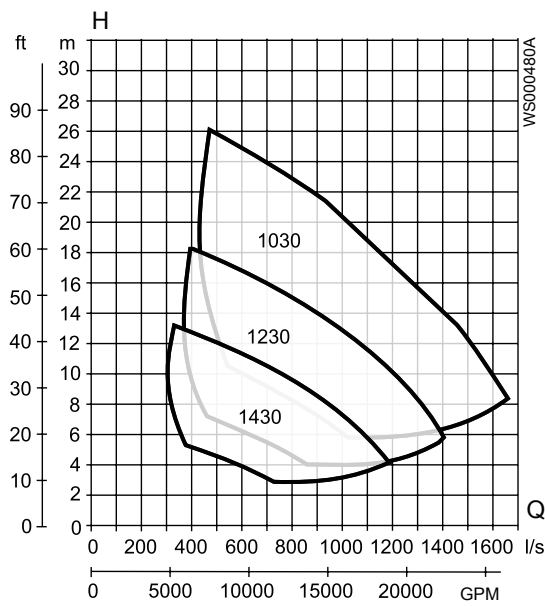


Figure 31: C3501, 60 Hz, low voltage

Medium voltage

Table 43: C3501, 60 Hz, medium voltage

Curve / impeller no.	Rotations per minute	Drive unit	Voltage, V	Rated power, HP	Rated current, A	Starting current, A	Power factor $\cos \varphi$
1430	505	862 / 872	4160	135	26	95	0.60
1230	590	862 / 872	4160	190	34	153	0.63
		882 / 892	4160	225	37	175	0.68
1030	710	862 / 872	4160	220	33	147	0.75
		882 / 892	4160	270	40	184	0.75
		882 / 892	4160	350	50	264	0.77

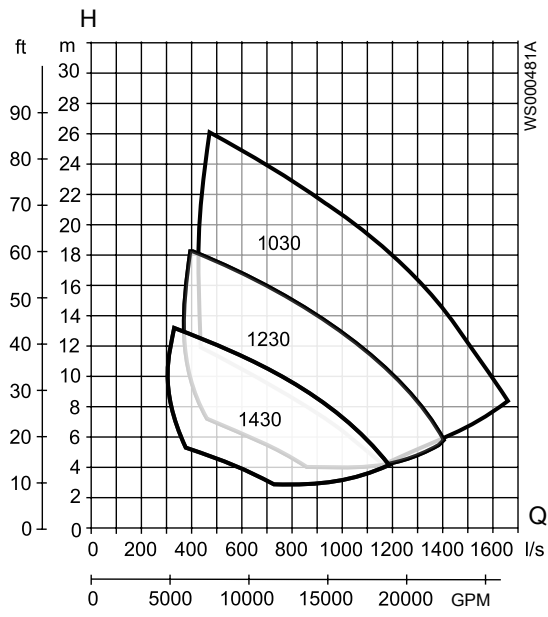


Figure 32: C3501, 60 Hz, medium voltage

C3531 Motor rating and performance, 60 Hz

Low voltage

Table 44: C3531, 60 Hz, low voltage

Curve / impeller no.	Rotations per minute	Drive unit	Voltage, V	Rated power, HP (kW)	Rated current, A	Starting current, A	Power factor $\cos \varphi$		
1440	505	705 / 715	460	60 (45)	110	375	0.57		
			600	60 (45)	85	297	0.57		
		706 / 716	460	60 (45)	107	330	0.58		
			600	60 (45)	86	269	0.56		
		735 / 745	460	90 (67)	157	515	0.6		
			600	90 (67)	123	420	0.58		
		736 / 746	460	90 (67)	167	460	0.55		
			600	90 (67)	134	375	0.53		
		765 / 775	460	110 (82)	190	625	0.6		
			600	110 (82)	153	540	0.57		
		766 / 776	460	110 (82)	196	555	0.57		
			600	110 (82)	163	480	0.53		
		805 / 815	460	130 (97)	214	855	0.62		
			600	130 (97)	173	730	0.59		
		835 / 845	460	170 (127)	269	1035	0.65		
			600	170 (127)	226	960	0.6		
		1240	590	735 / 745	460	90 (67)	148	565	0.63
					600	90 (67)	116	445	0.62
736 / 746	460			90 (67)	145	555	0.63		
	600			90 (67)	114	440	0.61		
765 / 775	460			120 (89)	195	725	0.63		
	600			120 (89)	154	590	0.61		
766 / 776	460			120 (89)	190	715	0.63		
	600			120 (89)	151	580	0.61		
805 / 815	460			150 (112)	243	1055	0.62		
	600			150 (112)	191	860	0.61		
835 / 845	460			215 (160)	345	1505	0.62		
	600			215 (160)	279	1270	0.59		
865 / 875	460			280 (209)	435	1800	0.65		
	600			280 (209)	355	1580	0.61		

Curve / impeller no.	Rotations per minute	Drive unit	Voltage, V	Rated power, HP (kW)	Rated current, A	Starting current, A	Power factor $\cos \varphi$
1040	705	735 / 745	460	135 (101)	211	960	0.66
			600	135 (101)	167	775	0.64
		736 / 746	460	135 (101)	204	735	0.67
			600	135 (101)	167	620	0.63
		765 / 775	460	170 (127)	231	890	0.75
			600	170 (127)	184	825	0.72
		766 / 776	460	170 (127)	241	1050	0.71
			600	170 (127)	181	765	0.72
		805 / 815	460	185 (138)	253	1275	0.74
			600	185 (138)	210	1180	0.68
		835 / 845	460	250 (186)	355	1965	0.71
			600	250 (186)	276	1555	0.69
		865 / 875	460	325 (242)	430	2100	0.75
			600	325 (242)	325	1530	0.76
		905 / 915	460	385 (287)	465	2485	0.81
			600	385 (287)	350	1815	0.82
460	500 (373)		600	3095	0.82		
600	500 (373)		480	2780	0.78		
840	890	835 / 845	460	335 (310)	430	2425	0.78
			600	335 (310)	340	2045	0.75
		865 / 875	460	415 (310)	515	2785	0.8
			600	415 (310)	395	2150	0.8
		905 / 915	460	430 (321)	495	2755	0.85
			600	430 (321)	380	2010	0.85
			460	525 (392)	605	3340	0.85
			600	525 (392)	465	2580	0.85
		935 / 945	460	620 (463)	720	4570	0.84
			600	620 (463)	545	3115	0.85
			460	720 (537)	835	5250	0.84
			600	720 (537)	640	4155	0.84
		965 / 975	460	870 (649)	980	5975	0.86
			600	870 (649)	750	4530	0.87

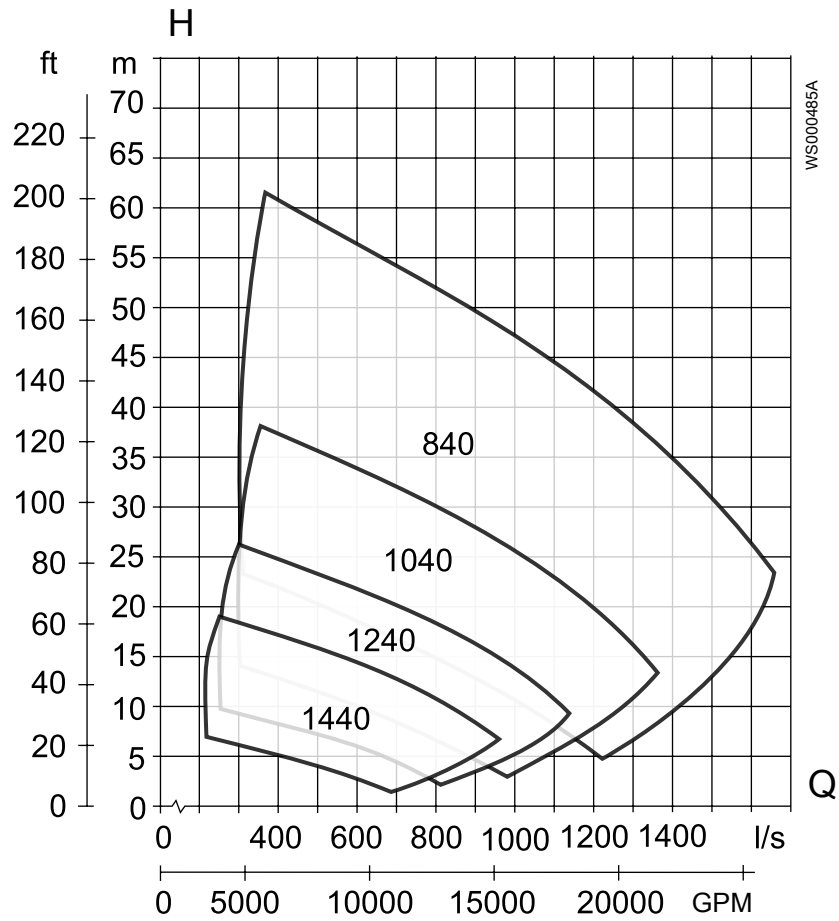


Figure 33: C3531, 60 Hz, low voltage

Medium voltage

Table 45: C3531, 60 Hz, medium voltage

Curve / impeller no.	Rotations per minute	Drive unit	Voltage, V	Rated power, HP	Rated current, A	Starting current, A	Power factor cos φ
1440	505	862 / 872	4160	135	26	95	0.60
		882 / 892	4160	180	34	118	0.61
1240	590	862 / 872	4160	190	34	153	0.63
		882 / 892	4160	225	37	175	0.68
			4160	300	48	208	0.70
1040	705	862 / 872	4160	220	33	147	0.75
		882 / 892	4160	270	40	184	0.75
			4160	350	50	264	0.77
		950 / 960	4160	310	42	217	0.82
			4160	390	52	280	0.82
		985 / 995	4160	440	59	340	0.81
4160	540		72	405	0.82		

Curve / impeller no.	Rotations per minute	Drive unit	Voltage, V	Rated power, HP	Rated current, A	Starting current, A	Power factor $\cos \varphi$
840	890	882 / 892	4160	330	46	305	0.79
			4160	400	55	330	0.80
		950 / 960	4160	350	47	284	0.82
			4160	450	60	365	0.82
		985 / 995	4160	540	72	455	0.81
			4160	670	87	495	0.84
			4160	740	96	575	0.84

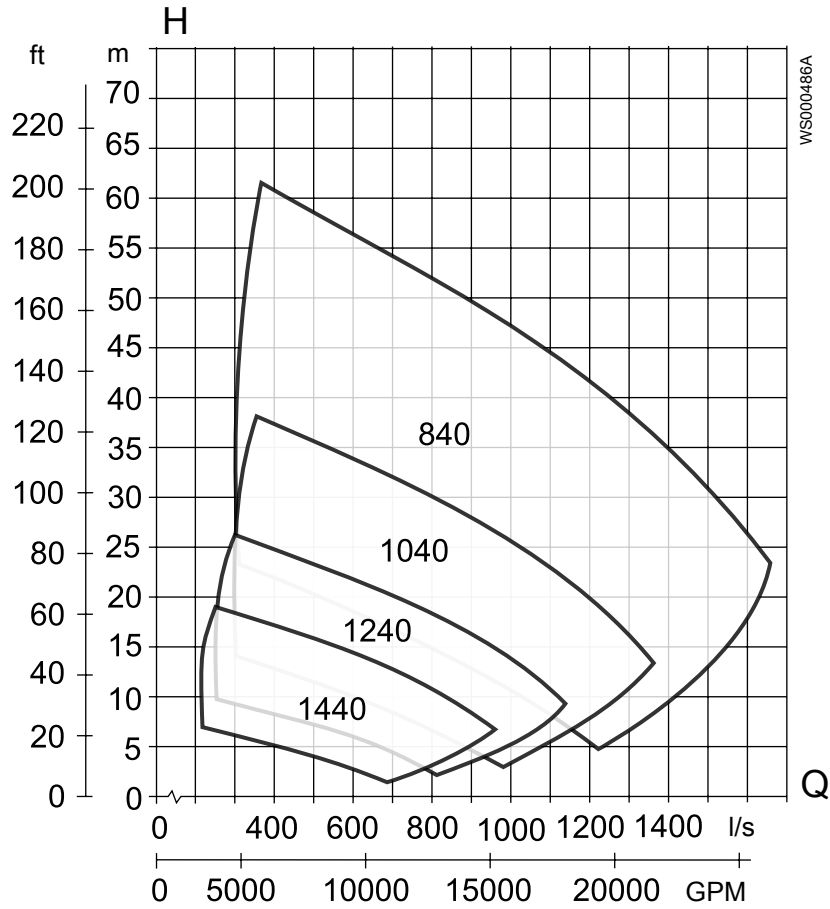


Figure 34: C3531, 60 Hz, medium voltage

C3602 Motor rating and performance, 60 Hz

Low voltage

Table 46: C3602, 60 Hz, low voltage

Curve / impeller no.	Rotations per minute	Drive unit	Voltage, V	Rated power, HP (kW)	Rated current, A	Starting current, A	Power factor $\cos \varphi$		
1440	505	735 / 745	460	90 (67)	157	515	0.6		
			600	90 (67)	123	420	0.58		
		736 / 746	460	90 (67)	167	460	0.55		
			600	90 (67)	134	375	0.53		
		765 / 775	460	110 (82)	190	625	0.6		
			600	110 (82)	153	540	0.57		
		766 / 776	460	110 (82)	196	555	0.57		
			600	110 (82)	163	480	0.53		
		805 / 815	460	130 (97)	214	855	0.62		
			600	130 (97)	173	730	0.59		
		835 / 845	460	170 (127)	269	1035	0.65		
			600	170 (127)	226	960	0.6		
		865 / 875	460	215 (160)	335	1290	0.66		
			600	215 (160)	269	1090	0.63		
		1240	590	805 / 815	460	150 (112)	243	1055	0.62
					600	150 (112)	191	860	0.61
835 / 845	460			215 (160)	345	1500	0.62		
	600			215 (160)	279	1270	0.59		
865 / 875	460			280 (209)	435	1800	0.65		
	600			280 (209)	355	1580	0.61		
1040	705	835 / 845	460	250 (186)	355	1965	0.71		
			600	250 (186)	276	1555	0.69		
		865 / 875	460	325 (242)	430	2095	0.75		
			600	325 (242)	325	1530	0.76		
		905 / 915	460	385 (287)	465	2485	0.81		
			600	385 (287)	350	1815	0.82		
			460	500 (373)	600	3095	0.82		
			600	500 (373)	480	2780	0.78		

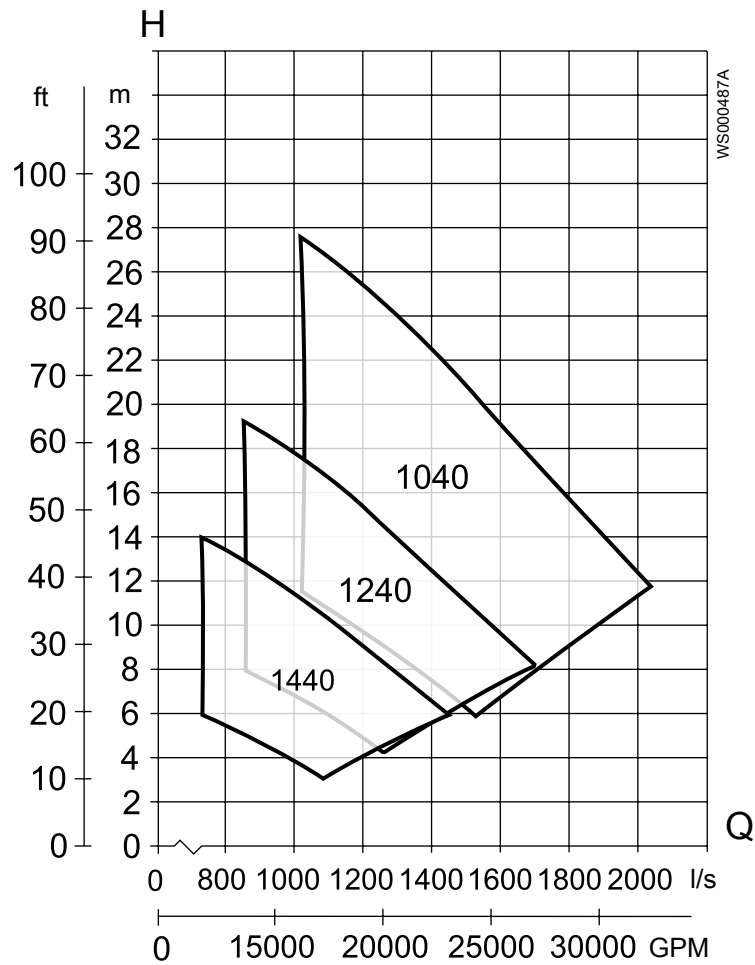


Figure 35: C3602, 60 Hz, low voltage

Medium voltage

Table 47: C3602, 60 Hz, medium voltage

Curve / impeller no.	Rotations per minute	Drive unit	Voltage, V	Rated power, HP	Rated current, A	Starting current, A	Power factor $\cos \varphi$
1440	505	862 / 872	4160	135	26	95	0.60
		882 / 892	4160	180	34	118	0.61
1240	590	862 / 872	4160	190	34	153	0.63
			4160	225	37	175	0.68
		4160	300	48	208	0.70	
1040	705	882 / 892	4160	270	40	184	0.75
			4160	350	50	264	0.77
		950 / 960	4160	310	42	217	0.82
			4160	390	52	280	0.82
		985 / 995	4160	440	59	340	0.81
			4160	540	72	405	0.82

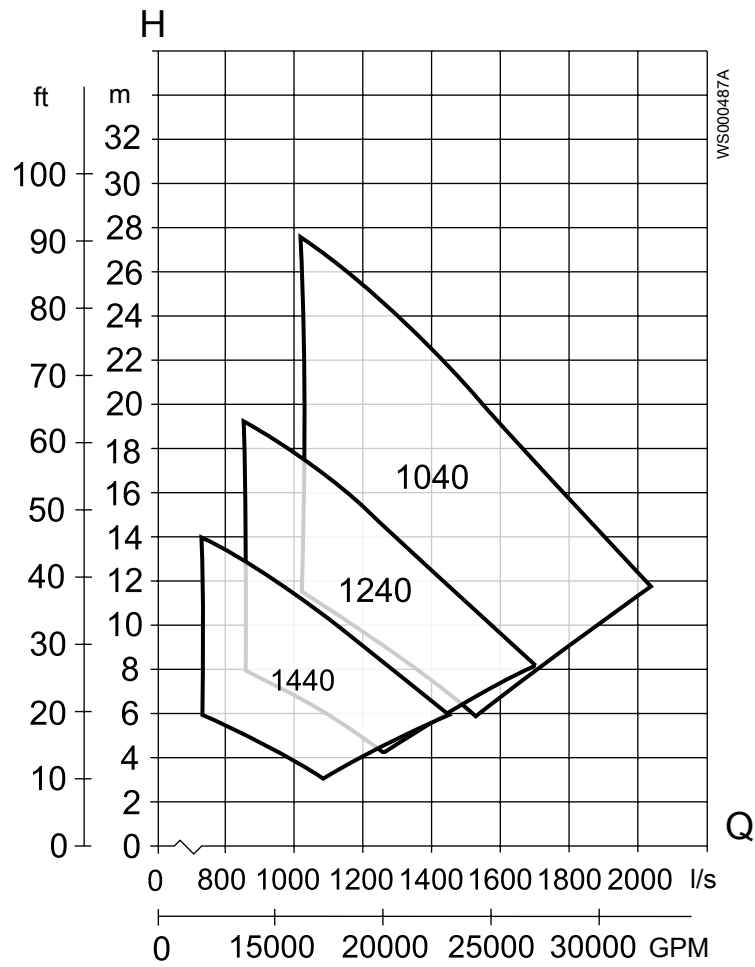


Figure 36: C3602, 60 Hz, medium voltage

C3800 Motor rating and performance, 60 Hz

Low voltage

Table 48: C3800, 60 Hz, low voltage

Curve / impeller no.	Rotations per minute	Drive unit	Voltage, V	Rated power, HP	Rated current, A	Starting current, A	Power factor $\cos \varphi$
1440	500	905 / 915	460	240	515	1840	0.74
			600	240	254	1005	0.72
			460	310	420	1605	0.73
			600	310	325	1265	0.73
		935 / 945	460	385	515	1840	0.74
			600	385	430	1850	0.68
			460	460	630	2410	0.72
			600	460	510	2160	0.69
1240	595	905 / 915	460	350	450	1710	0.78
			600	350	345	1355	0.77
			460	430	570	2520	0.75
			600	430	435	1905	0.75
		935 / 945	460	500	650	2815	0.76
			600	500	500	2230	0.75
			460	600	780	3375	0.76
			600	600	615	2850	0.74
		965 / 975	460	730	955	4070	0.75
			600	730	800	3785	0.69
1040	710	935 / 945	460	580	710	4215	0.80
			600	580	510	2355	0.85
			460	700	805	3490	0.85
			600	700	625	3035	0.84
		965 / 975	460	845	1010	5615	0.82
			600	845	755	3900	0.84

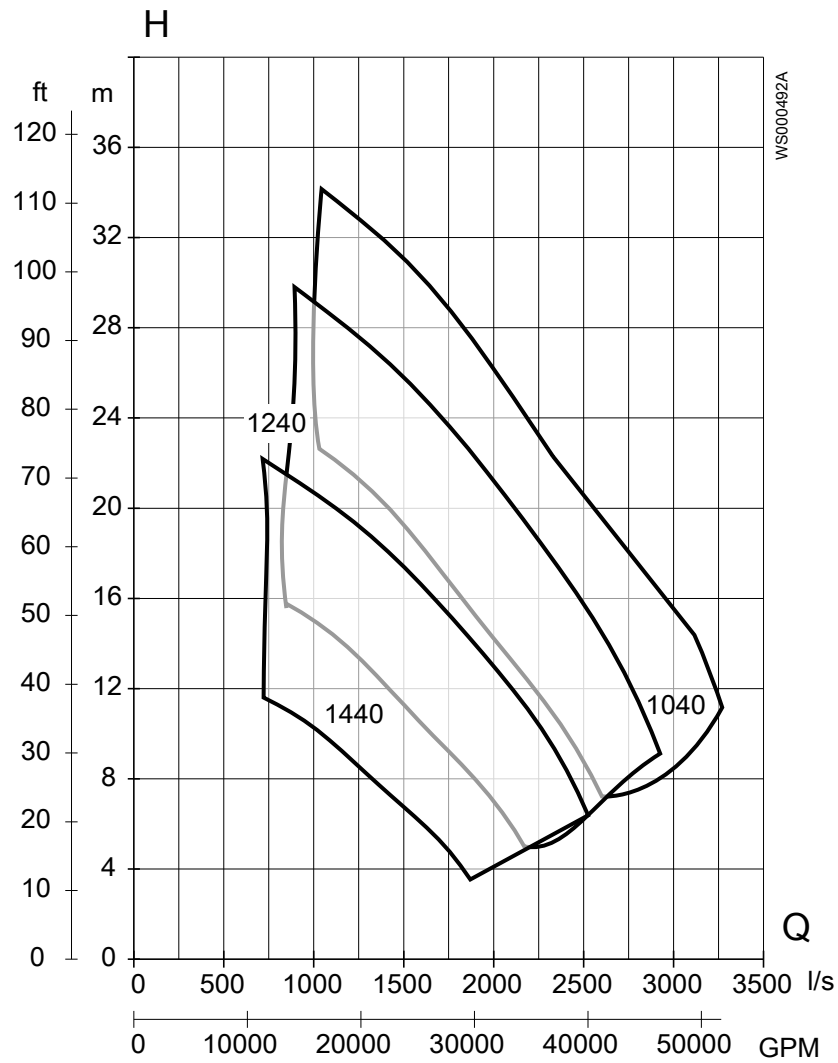


Figure 37: C3800, 60 Hz, low voltage

Medium voltage

Table 49: C3800, 60 Hz, medium voltage

Curve / impeller no.	Rotations per minute	Drive unit	Voltage, V	Rated power, HP	Rated current, A	Starting current, A	Power factor $\cos \varphi$
1440	500	950 / 960	4160	215	35	129	0.69
			4160	280	45	167	0.69
		985 / 995	4160	335	52	185	0.71
			4160	400	63	233	0.70
			4160	460	72	270	0.71
		1240	595	985 / 995	4160	400	61
4160	470				71	330	0.73
4160	560				82	375	0.75

Curve / impeller no.	Rotations per minute	Drive unit	Voltage, V	Rated power, HP	Rated current, A	Starting current, A	Power factor $\cos \varphi$
1040	710	985 / 995	4160	440	59	340	0.81
			4160	540	72	405	0.82
			4160	670	88	485	0.83

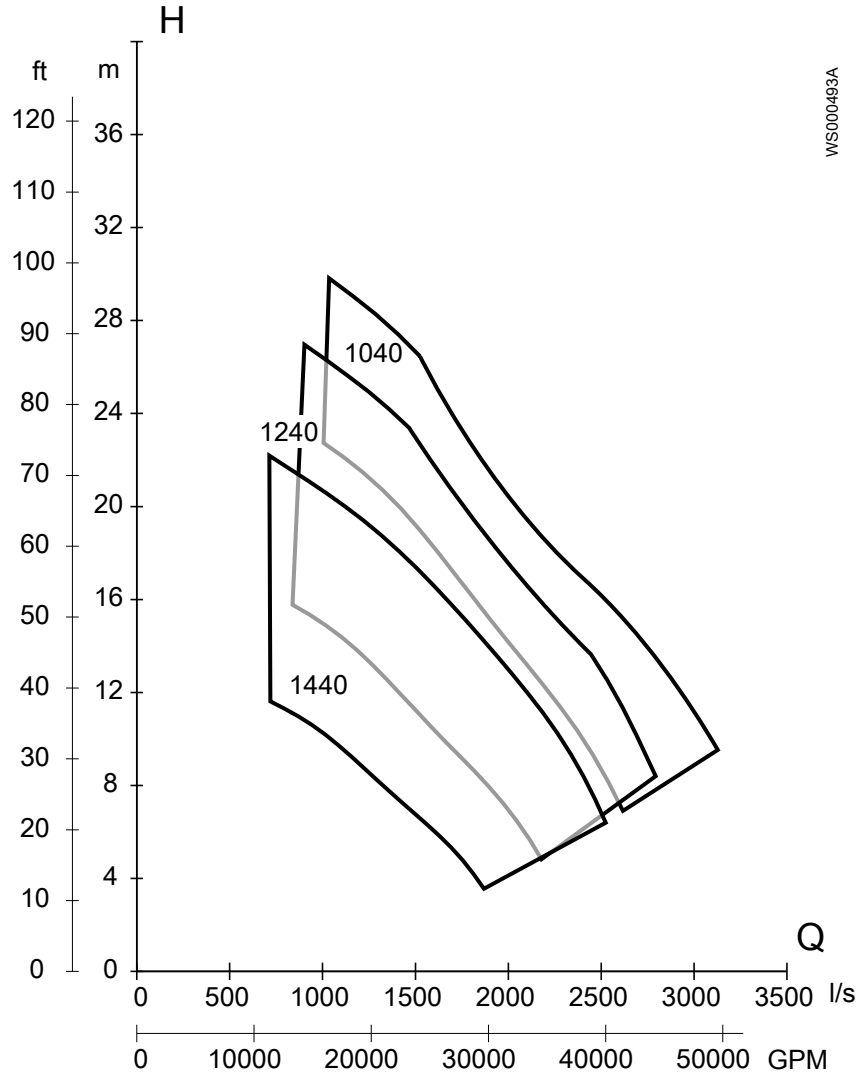


Figure 38: C3800, 60 Hz, medium voltage

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- 2) A leading global water technology company

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