

Описание на насосы центробежные с ординарными крыльчатками. Серия CM, CMP

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CM-CMP

CMP-CMP76-CMP79-CM1-B-C

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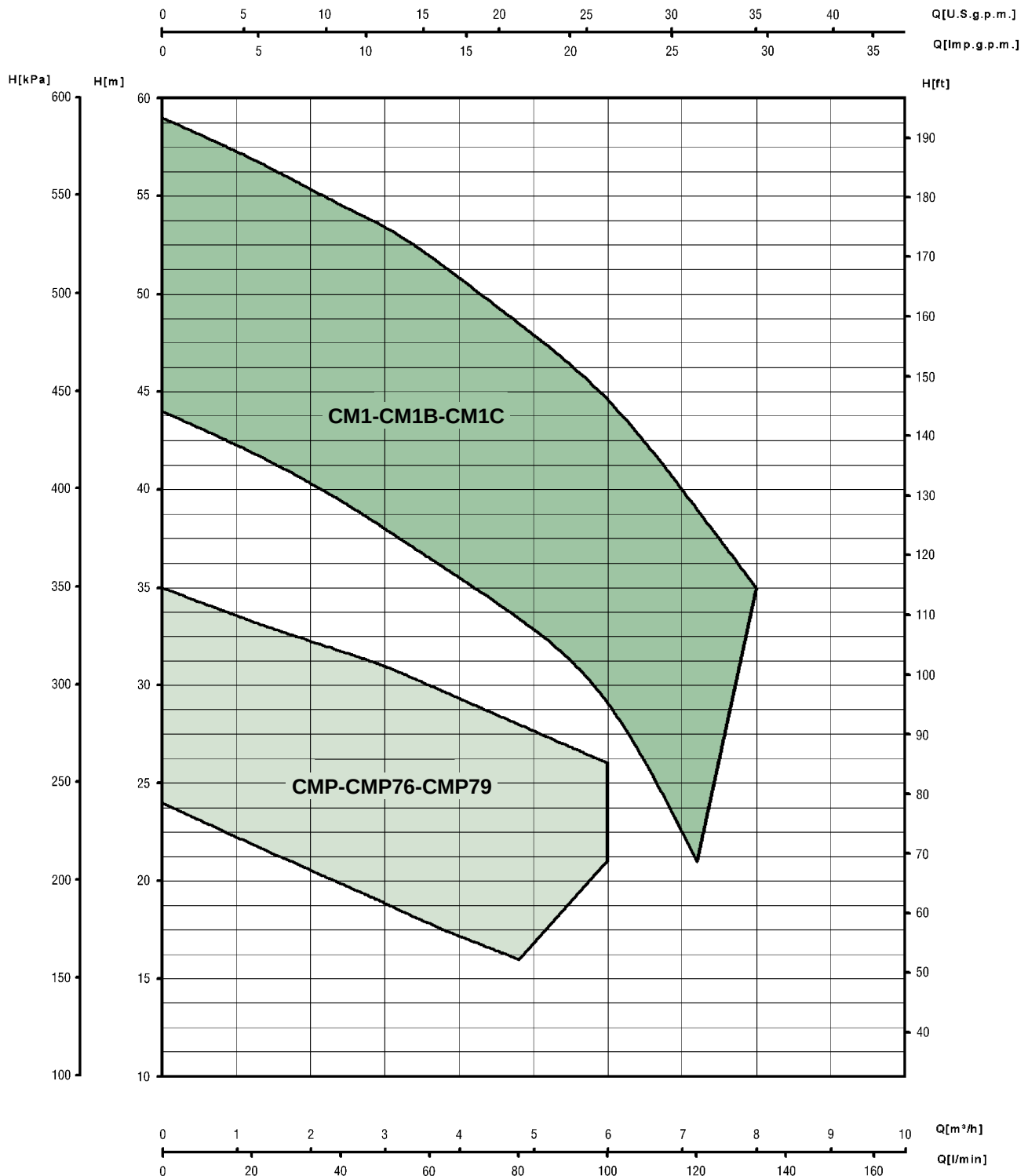
DIAGRAMMA DELLE CARATTERISTICHE IDRAULICHE

DIAGRAM OF THE HYDRAULIC FEATURES

DIAGRAMA DE LAS CARACTERISTICAS HIDRAULICAS

DIAGRAMME DES CARACTERISTIQUES HYDRAULIQUES

TABELLE DER HYDRAULISCHEN EIGENSCHAFTEN



CM-CMP

CMP-CMP76-CMP79-CM1-B-C

ELETTROPOMPE CENTRIFUGHE MONOGIRANTI

*ELECTRIC SINGLE IMPELLER CENTRIFUGAL PUMPS
ELECTROBOMBAS CENTRIFUGAS CON UNA TURBINA
ELECTROPOMPES CENTRIFUGES MONOTURBINES
EINSTUFIGE ELEKTRO-KREISEL PUMPEN*



PRINCIPIO DI FUNZIONAMENTO

Questa serie di elettropompe centrifughe monogiranti ha la girante calettata direttamente a sbalzo sull'albero motore. La conformazione idrodinamica della girante con perdite idrauliche minime impone al liquido pompato tramite le pale ricavate all'interno del canale girante energia cinetica.

Il liquido pompato all'uscita dalla girante viene convogliato nella voluta a spirale del corpo pompa, il quale provvede a trasformare l'energia cinetica in energia di pressione.

IMPIEGHI

Queste elettropompe trovano impiego negli impianti domestici, alimentazione idrica, piccolo giardinaggio, incremento di pressione in rete degli acquedotti. Inoltre funzionano con fluidi puliti e chimicamente non aggressivi.

CARATTERISTICHE COSTRUTTIVE

Corpo pompa in ghisa, supporto motore in ghisa o lega di alluminio. Girante in ottone stampato o resina termoplastica. Tenuta meccanica in carbone/ceramica, motore elettrico del tipo chiuso a ventilazione esterna, rotore montato su cuscinetti a sfere prelubrificati.

A richiesta è possibile fornire l'elettropompa con una protezione termoamperometrica incorporata mentre il condensatore è permanentemente inserito nella versione monofase.

Grado di protezione del motore: IP 44, a richiesta IP 55.

Classe di isolamento: B (per motori grandezza 63)

F (per le altre grandezze).

Tensione di serie: monofase 230V/50Hz
trifase 230-400V/50Hz

Esecuzioni speciali a richiesta.

DATI CARATTERISTICI

Portate sino a 8 m³/h

Prevalenze fino a 59 m

Temperatura liquido pompato da -15°C a +70°C.

Pressione massima di esercizio: 9 bar

Temperatura massima ambiente: 40°C (oltre chiedere verifica)

Le caratteristiche di funzionamento e di catalogo si intendono per servizio continuo ed acqua pulita (peso specifico = 1000 Kg/m³).

Aspirazione manometrica fino ad un massimo di 8m con valvola di fondo, oltre i 5 m si consiglia l'installazione di un tubo aspirante di diametro interno maggiore della bocca di aspirazione.

Per le tolleranze delle caratteristiche idrauliche valgono le norme UNI/ISO 2548 - classe C - appendice B, mentre per le caratteristiche elettriche valgono le norme CEI.

INSTALLAZIONE

Le elettropompe serie CM-CMP possono essere installate con l'albero motore sia in posizione orizzontale che verticale. Qualora l'installazione fosse verticale, il motore dovrà essere posizionato sempre sopra il corpo pompa.



FUNCTIONING

This series of electric single impeller close coupled centrifugal pumps are fitted with the overhang impeller directly splined keyway on to the motor shaft.

The liquid pumped is conveyed into the spiral shaped volute of the pump body transforming the kinetic energy into dynamic pressure energy.

Pressure and flow is achieved with minimum loss by means of the hydrodynamic closed impeller design.

APPLICATIONS

Industrial water supply, pressurized water using pressure vessels (autoclaves), horticultural and agricultural irrigation, civil and domestic water transfer applications.

PUMP CONSTRUCTION

Pump body and motor support in cast iron or cast aluminium alloy. Pressed brass impeller or thermoplastic resin. Mechanical seal in carbon/ceramic.

Rotor shaft fitted with seal for life bearings.

Totally enclosed fan cooled motor (TEFC).

Single phase motors with a built in thermal overload protection on request, the capacitor is permanently in circuit.

Motor protection to IP44 (available in IP55 upon request).

Winding Insulation to class B (for motors of size 63),

F (for other sizes).

Standard Voltage: 230V-50Hz single phase,

230/400V- 50Hz three phase.

Other voltages and frequencies available upon request.

PUMP PERFORMANCE DATA

Capacities up to 8 m³/hr

Heads up to 59 meters

Liquid quality required clean, free from solids or abrasive substances and chemically non aggressive

Maximum Temperature of pumped liquid -15°C to +70°C

Maximum ambient temperature 40°C.

For higher temperatures please contact the sales office.

Maximum working pressure 9 bar.

The tolerances of the hydraulic features are according to UNI / ISO 2548-Class C, Appendix B, electric features according to C.E.I.

The working features listed in the catalogue are based on continuous service for clear water with a specific weight of 1000 kg /m³.

Manometric suction lift of 8 meters with a foot valve, for a suction lift of above 5 meters it is advisable to install the suction pipe with a internal diameter larger than the pump inlet.

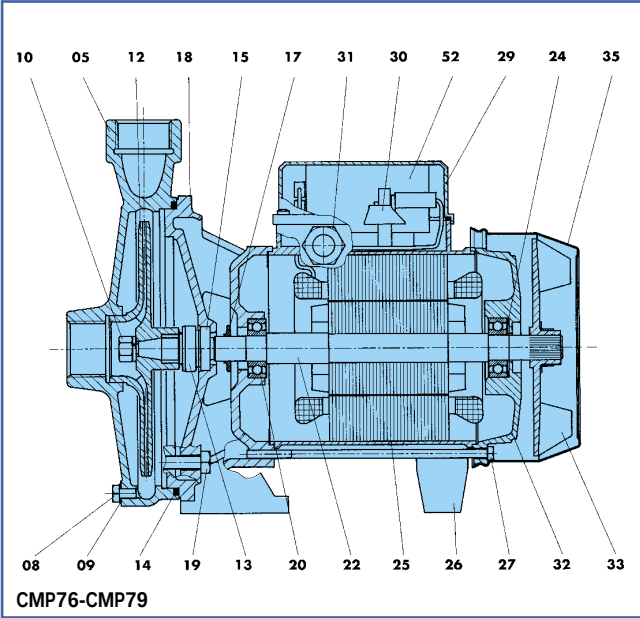
INSTALLATION

Upon installation always prime the pump body first before start up.

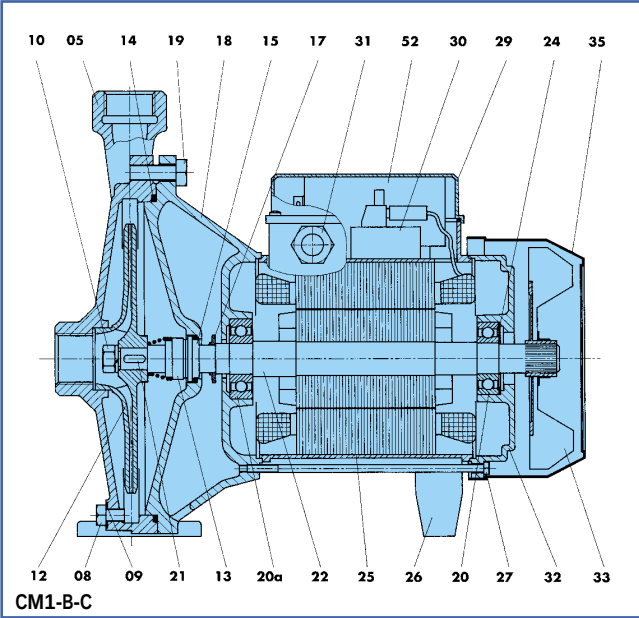
Pump may be installed with the motor shaft in the horizontal or vertical position.

In the case of the pump being mounted in the vertical position the motor must be positioned above the pump body.





COMPONENT		MATERIAL	
		STANDARD	ON REQUEST
05	Pump body	Cast iron G20	Cast iron G20
08	Plug	Brass	Brass
09	Gasket	Aluminium	Aluminium
10	Nut	Brass	Stainless steel, AISI 304
12	Impeller	Thermoplastic resin Brass (only for CM1)	Brass
13	Rotating mechanical seal	Graphite	Tungsten carbide
14	O-Ring	Rubber NBR	Rubber EPDM
15	Fixed mechanical seal	Ceramic	Tungsten carbide
17	Drop guard	Rubber	Rubber
18	Support	Aluminium	Aluminium
19	Screw	Galvanized steel	Galvanized steel
20	Bearing	Commercial	Commercial
20a	Bearing	Commercial	Commercial
21	Key	Stainless steel, AISI 304	Stainless steel, AISI 304
22	Rotating shaft	Stainless steel, AISI 431	Stainless steel, AISI 431
24	Circlip	Steel	Steel
25	Casing with wound stator	Aluminium	Aluminium
26	Foot	Thermoplastic resin	Thermoplastic resin
27	Tie-rod	Galvanized steel	Galvanized steel
29	Terminal board cover	Thermoplastic resin	Thermoplastic resin
30	Terminal board	Thermosetting resin	Thermosetting resin
31	Fairlead	Thermoplastic resin	Thermoplastic resin
32	Driving cap	Aluminium	Aluminium
33	Fan	Thermoplastic resin	Thermoplastic resin
35	Fan cover	Steel	Steel
52	Capacitor	Commercial	Commercial



COMPONENTE		MATERIAL	
		ESTÁNDAR	PETICIÓN
05	Cuerpo de bomba	Fundición gris G20	Fundición gris G20
08	Tapon	Latón	Latón
09	Empaquetadura	Aluminio	Aluminio
10	Tuerca	Latón	Acero inox, AISI 304
12	Impulsor	Resina termoplástica Latón (solo para CM1)	Latón
13	Cierre mecanico parte girante	Grafito	Carburo de tungsteno
14	Anillo OR	Goma NBR	Goma EPDM
15	Cierre mecanico parte fija	Ceramica	Carburo de tungsteno
17	Paragotas	Goma	Goma
18	Soporte	Aluminio	Aluminio
19	Tornillo	Acero cincado	Acero cincado
20	Cojinete	Comercial	Comercial
20a	Cojinete	Comercial	Comercial
21	Chaveta	Acero inox, AISI 304	Acero inox, AISI 304
22	Eje rotatorio	Acero inox, AISI 431	Acero inox, AISI 431
24	Anillo elastico	Acero	Acero
25	Carcasa estator envuelto	Aluminio	Aluminio
26	Pie	Resina termoplástica	Resina termoplástica
27	Tirante	Acero cincado	Acero cincado
29	Tapa de bornes	Resina termoplástica	Resina termoplástica
30	Bornes	Resina de endurecimiento termico	Resina de endurecimiento termico
31	Guia	Resina termoplástica	Resina termoplástica
32	Tapa motor	Aluminio	Aluminio
33	Ventilador	Resina termoplástica	Resina termoplástica
35	Tapa ventilador	Acero	Acero
52	Condensador	Comercial	Comercial

CM-CMP

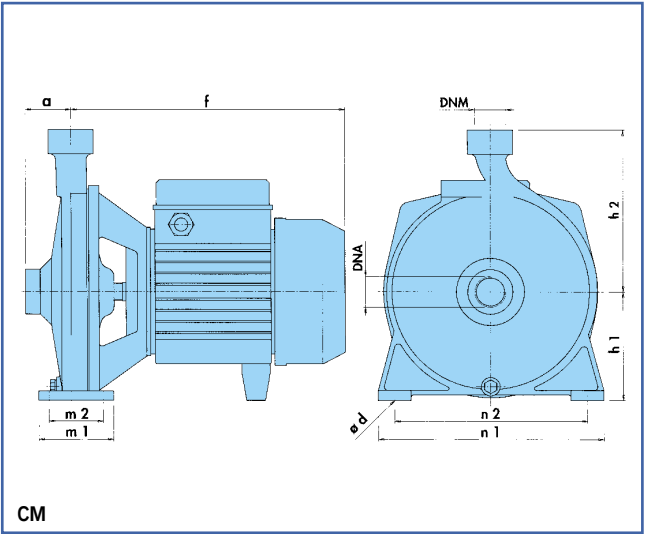
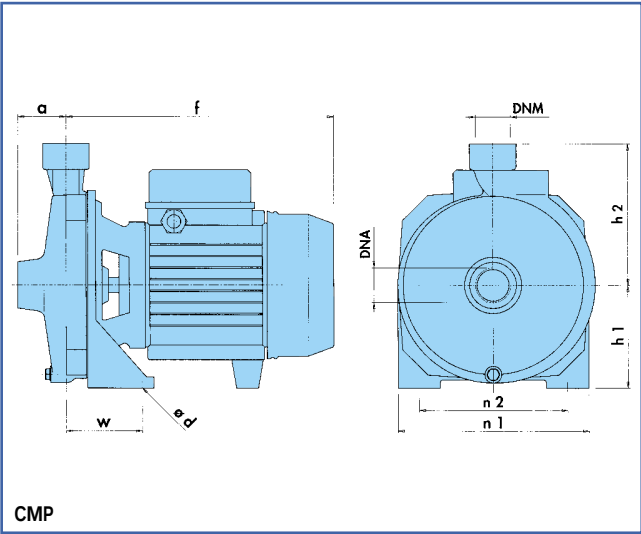
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CMP-CMP76-CMP79-CM1-B-C

CARATTERISTICHE IDRAULICHE

HYDRAULIC FEATURES / CARACTERISTICAS HIDRAULICAS / CARACTERISTIQUES HYDRAULIQUES / HYDRAULISCHE EINGESCHAFTEN

Tipo Type Typ	Alimentazione Feeding - Alimentacion Alimentation - Speisung 50 Hz	P1 Max kW	P2 Nominale P2 Nominal kW HP		Corrente assorbita - A Absorbed current - A Corriente absorbida - A Courant absorbe - A Abgenommener Strom - A	 μF V		U.S. g.p.m. m³/h l/min	0	5,3	10,5	13,2	15,8	21,1	26,4	31,7	35,2
									0	1,2	2,4	3	3,6	4,8	6	7,2	8
									0	20	40	50	60	80	100	120	133
CMP	1 x 230 V	0,65	0,37	0,5	3	10	450	H (m)	24	22	20	19	17	16			
CMP	3 x 230-400 V	0,55	0,37	0,5	2,5/1,4				24	22	20	19	17	16			
CMP 76	1 x 230 V	1	0,55	0,75	4,5	16	450		30	29	28	27	26	23,7	21		
CMP 76	3 x 230-400 V	0,76	0,55	0,75	3,2/1,8				30	29	28	27	26	23,7	21		
CMP 79	1 x 230 V	1,25	0,75	1	6	20	450		35	33	32	31	30	28	26		
CMP 79	3 x 230-400 V	1,05	0,75	1	4,7/2,7				35	33	32	31	30	28	26		
CM 1	1 x 230 V	1,9	1,1	1,5	9	31,5	450		44	42	39,5	38	36,5	33,5	30	21	
CM 1	3 x 230-400 V	1,87	1,1	1,5	6/3,5				44	42	39,5	38	36,5	33,5	30	21	
CM 1B	1 x 230 V	2,5	1,6	2,2	10,6	40	450		52	50	47	46	44,5	41	37	32	
CM 1B	3 x 230-400 V	2,1	1,6	2,2	8,3/4,8				52	50	47	46	44,5	41	37	32	
CM 1C	1 x 230 V	3,08	2,2	3	13,7	50	450		59	57	54,5	53,5	52	48,5	45	39	35
CM 1C	3 x 230-400 V	2,8	2,2	3	9,7/5,6				59	57	54,5	53,5	52	48,5	45	39	35



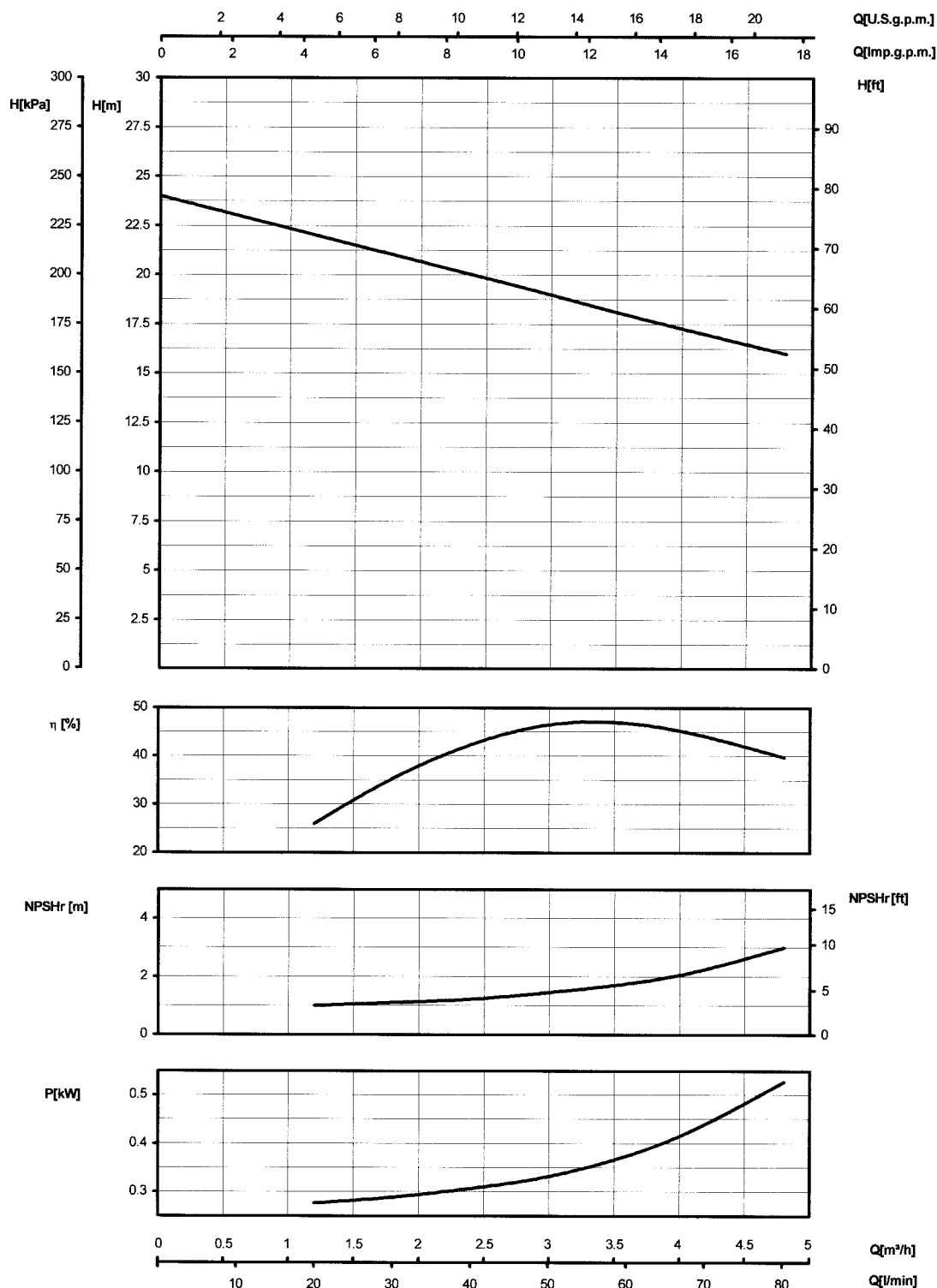
DIMENSIONI E PESI

DIMENSIONS AND WEIGHTS / DIMENSIONES Y PESOS / DIMENSIONS ET POIDS / ABMESSUNGEN UND GEWICHTE

TIPO TYPE TYP	DNA	DNM	f	a	m1	m2	n1	n2	h1	h2	w	Ø d	Kg
CMP	G 1"	G 1"	216	43			150	110	83	135	58	11	10
CMP 76	G 1"	G 1"	254	46			180	140	98	135	72	9	12
CMP 79	G 1"	G 1"	254	46			180	140	98	135	72	9	15
CM 1	G 1"	G 1"	293	49	80	58	240	205	116	174		11	22,2
CM 1B	G 1"	G 1"	293	49	80	58	240	205	116	174		11	24,3
CM 1C	G 1"	G 1"	293	49	80	58	240	205	116	174		11	27

CMP

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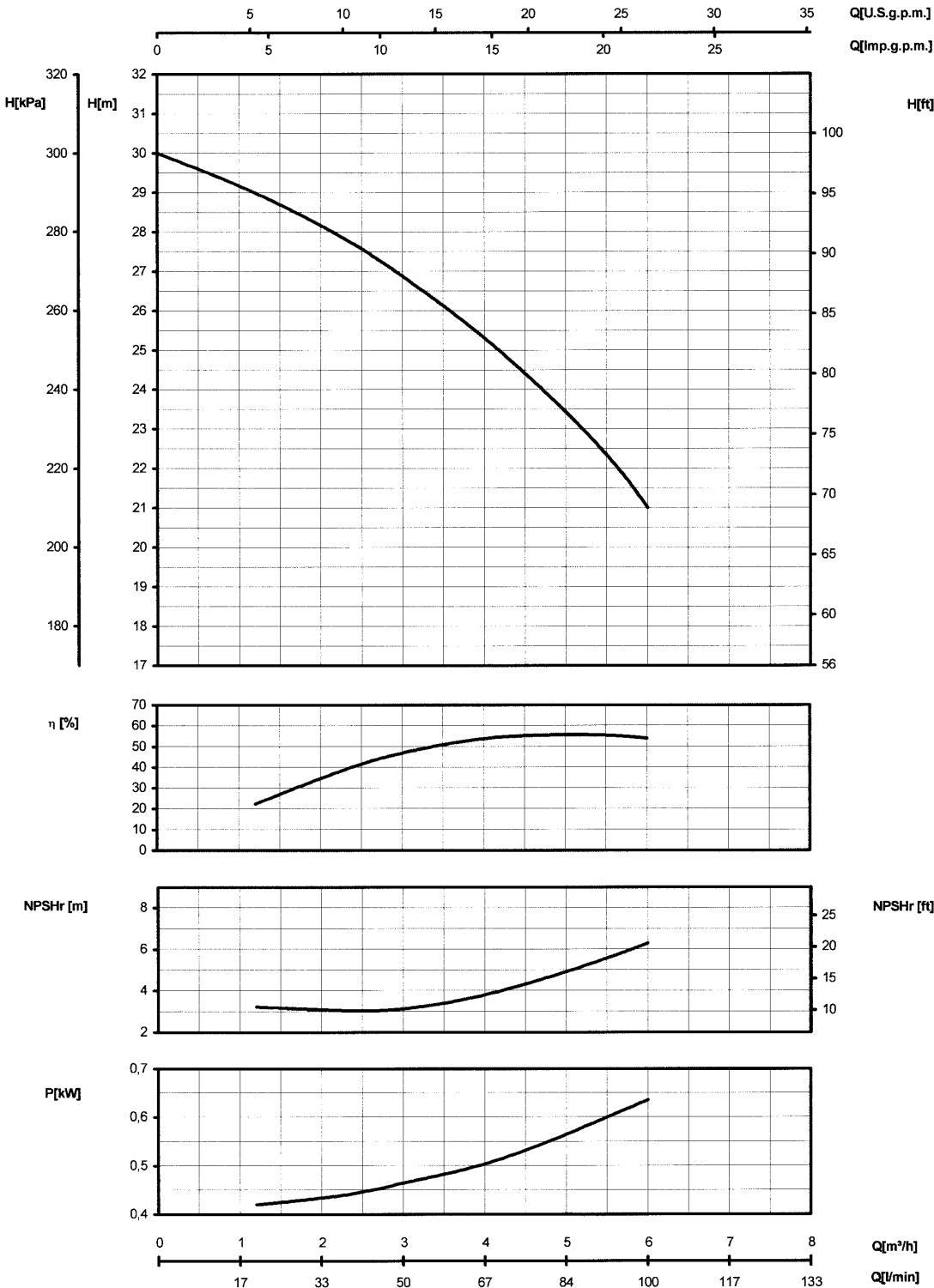
La potenza nominale ha un coefficiente di sovraccarico del 45%

- The nominal power has an overload coefficient of 45% • La potencia nominal tiene un coeficiente de sobrecarga de 45%
- La puissance nominale a un coefficient de surcharge de 45% • Die Nennungsleistung hat einen Überlastkoeffizient von 45%

Le curve di prestazione sono basate su valori di viscosità cinematica = 1 mm²/s e densità pari a 1000 kg/m³. Tolleranza e curve secondo UNI/ISO 2548 - Classe C - Appendice B • The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to UNI/ISO 2548 - Class C - Appendix B • Las curvas de rendimiento se refieren a valores de viscosidad cinemática = 1 mm²/s y densidad de 1000 Kg/m³. Tolerancia de las curvas de acuerdo con UNI/ISO 2548 - Clase C - Apéndice B • Les courbes de performances sont basées sur des valeurs de viscosité cinématique égale à 1 mm²/s et une densité égale à 1000 kg/m³. Tolérance et courbes conformes aux normes UNI/ISO 2548 - Classe C - Appendice B. • Die Leistungskurven beruhen auf einer kinematischen Zähflüssigkeit von 1 mm²/s und einer Dichte von 1000 kg/m³. Abweichung und Kurven gemäß UNI/ISO 2548 - Klasse C - Anhang B.

CMP76

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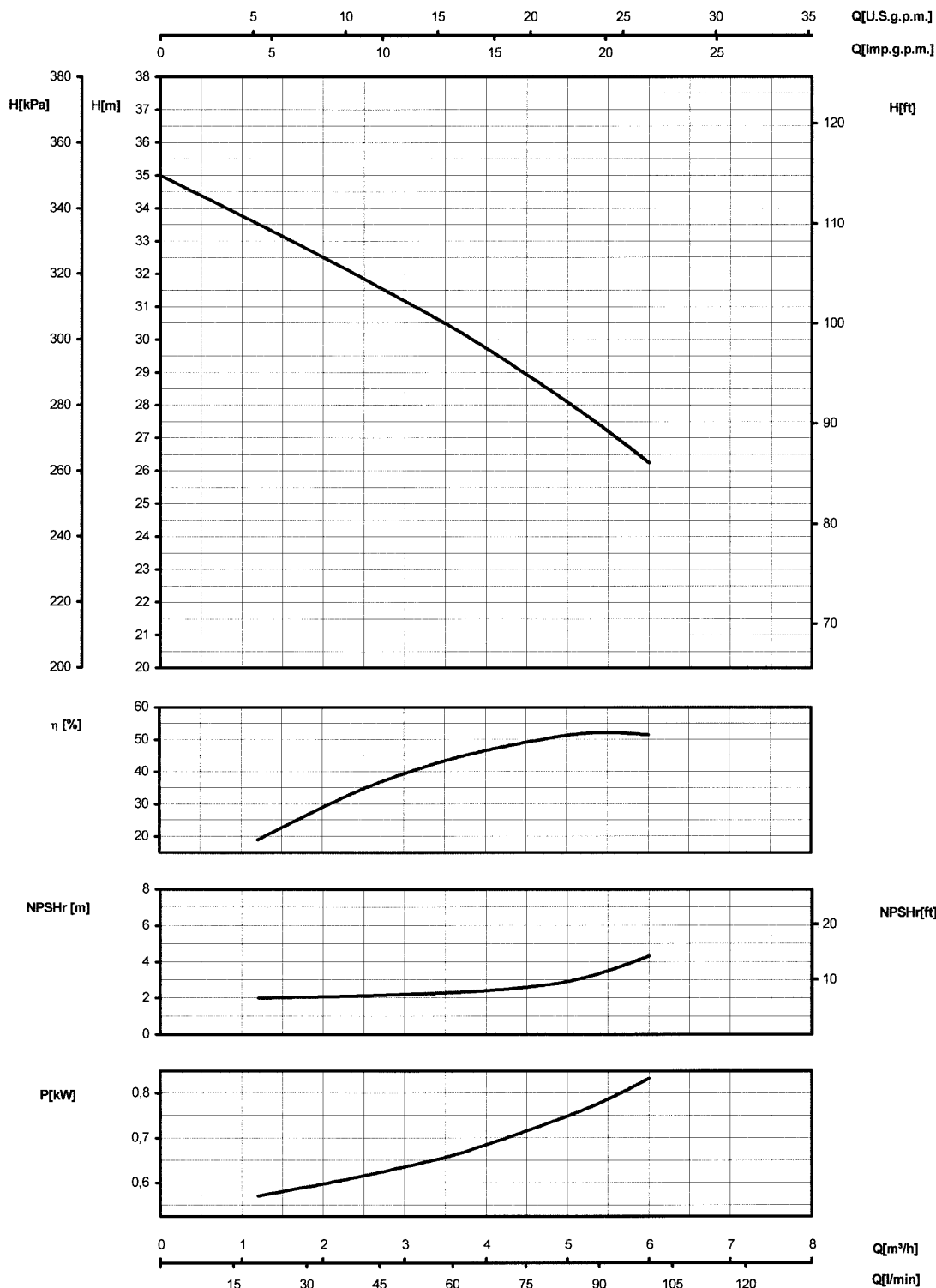


La potenza nominale ha un coefficiente di sovraccarico del 20%
• The nominal power has an overload coefficient of 20% • La potencia nominal tiene un coeficiente de sobrecarga de 20%
• La puissance nominale a un coefficient de surcharge de 20% • Die Nennungsleistung hat einen Überlastkoeffizient von 20%

Le curve di prestazione sono basate su valori di viscosità cinematica = 1 mm²/s e densità pari a 1000 kg/m³. Tolleranza e curve secondo UNI/ISO 2548 - Classe C - Appendice B • The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to UNI/ISO 2548 - Class C - Appendix B • Las curvas de rendimiento se refieren a valores de viscosidad cinemática = 1 mm²/s y densidad de 1000 Kg/m³. Tolerancia de las curvas de acuerdo con UNI/ISO 2548 - Clase C - Apéndice B • Les courbes de performances sont basées sur des valeurs de viscosité cinématique égale à 1 mm²/s et une densité égale à 1000 kg/m³. Tolérance et courbes conformes aux normes UNI/ISO 2548 - Classe C - Appendice B. • Die Leistungskurven beruhen auf einer kinematischen Zähflüssigkeit von 1 mm²/s und einer Dichte von 1000 kg/m³. Abweichung und Kurven gemäß UNI/ISO 2548 - Klasse C - Anhang B.

CMP79

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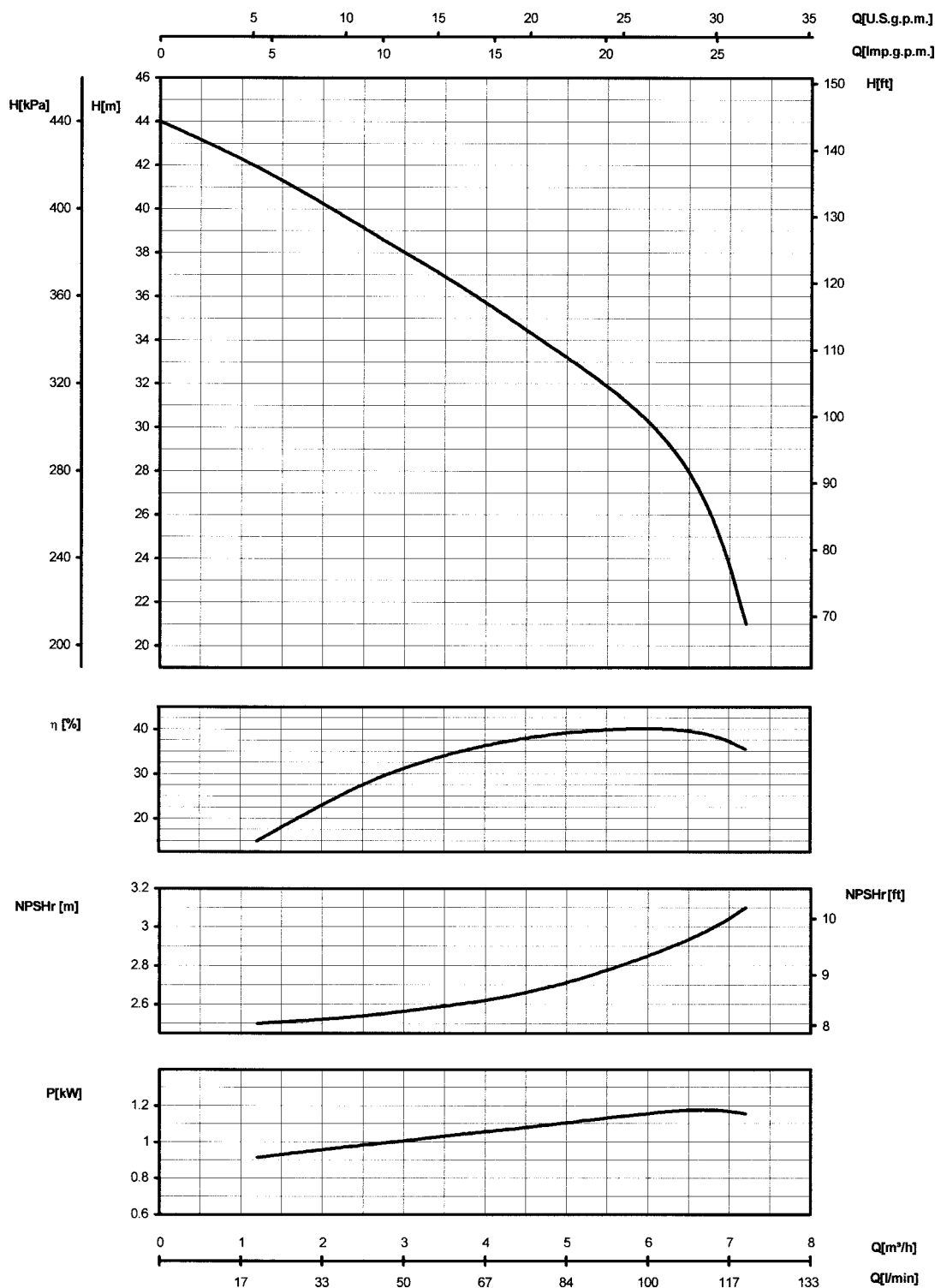


La potenza nominale ha un coefficiente di sovraccarico del 15%
 • The nominal power has an overload coefficient of 15% • La potencia nominal tiene un coeficiente de sobrecarga de 15%
 • La puissance nominale a un coefficient de surcharge de 15% • Die Nennungsleistung hat einen Überlastkoeffizient von 15%

Le curve di prestazione sono basate su valori di viscosità cinematica = 1 mm²/s e densità pari a 1000 kg/m³. Tolleranza e curve secondo UNI/ISO 2548 - Classe C - Appendice B • The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to UNI/ISO 2548 - Class C - Appendix B • Las curvas de rendimiento se refieren a valores de viscosidad cinemática = 1 mm²/s y densidad de 1000 Kg/m³. Tolerancia de las curvas de acuerdo con UNI/ISO 2548 - Clase C - Apéndice B • Les courbes de performances sont basées sur des valeurs de viscosité cinématique égale à 1 mm²/s et une densité égale à 1000 kg/m³. Tolérance et courbes conformes aux normes UNI/ISO 2548 - Classe C - Appendice B. • Die Leistungskurven beruhen auf einer kinematischen Zähflüssigkeit von 1 mm²/s und einer Dichte von 1000 kg/m³. Abweichung und Kurven gemäß UNI/ISO 2548 - Klasse C - Anhang B.

CM1

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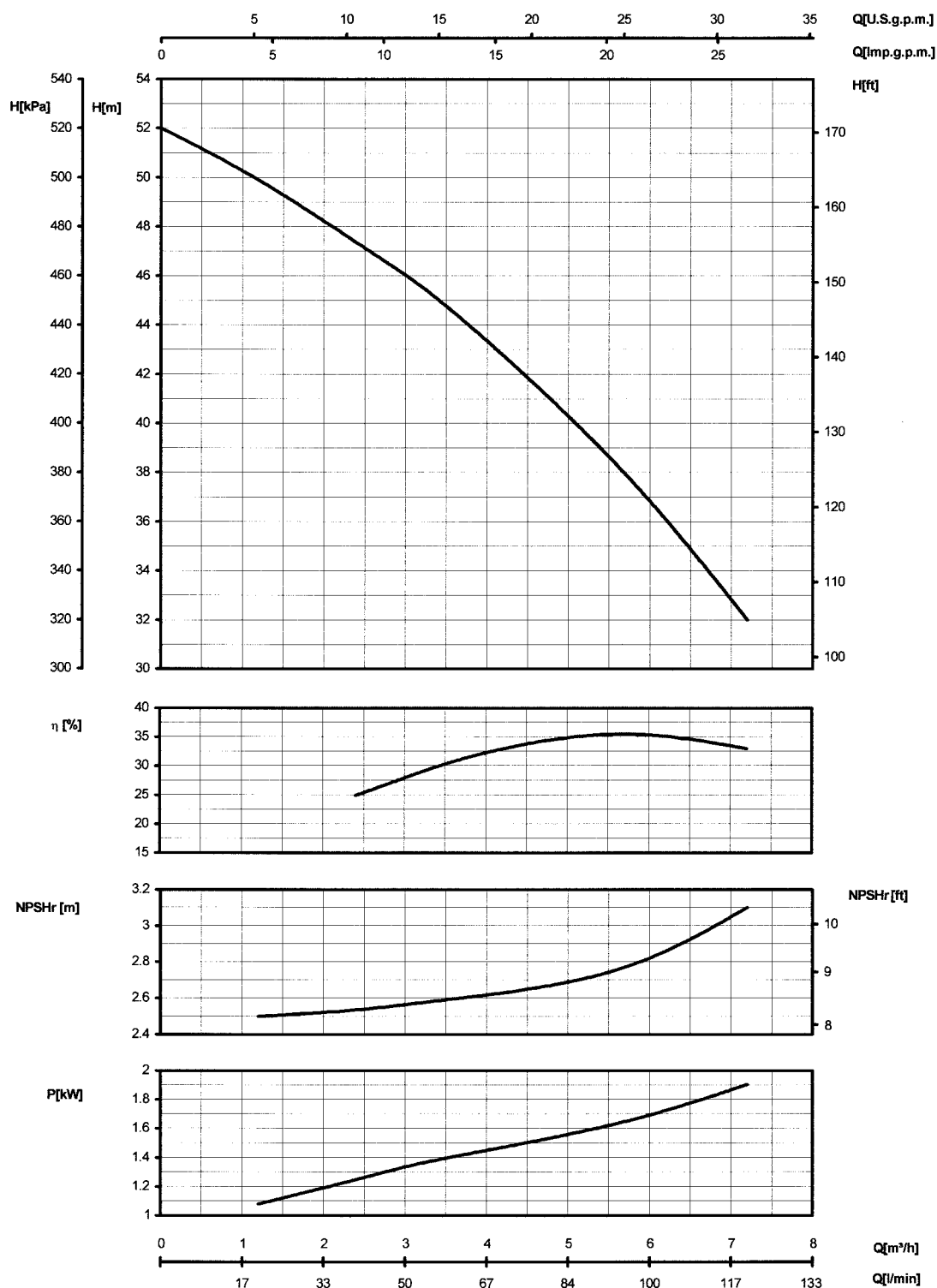


La potenza nominale ha un coefficiente di sovraccarico del 10%
• The nominal power has an overload coefficient of 10% • La potencia nominal tiene un coeficiente de sobrecarga de 10%
• La puissance nominale a un coefficient de surcharge de 10% • Die Nennungsleistung hat einen Überlastkoeffizient von 10%

Le curve di prestazione sono basate su valori di viscosità cinematica = 1 mm²/s e densità pari a 1000 kg/m³. Tolleranza e curve secondo UNI/ISO 2548 - Classe C - Appendice B • The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to UNI/ISO 2548 - Class C - Appendix B • Las curvas de rendimiento se refieren a valores de viscosidad cinemática = 1 mm²/s y densidad de 1000 Kg/m³. Tolerancia de las curvas de acuerdo con UNI/ISO 2548 - Clase C - Apéndice B • Les courbes de performances sont basées sur des valeurs de viscosité cinématique égale à 1 mm²/s et une densité égale à 1000 kg/m³. Tolérance et courbes conformes aux normes UNI/ISO 2548 - Classe C - Appendice B • Die Leistungskurven beruhen auf einer kinematischen Zähflüssigkeit von 1 mm²/s und einer Dichte von 1000 kg/m³. Abweichung und Kurven gemäß UNI/ISO 2548 - Klasse C - Anhang B.

CM1B

≅ 2850 1/min



La potenza nominale ha un coefficiente di sovraccarico del 20%

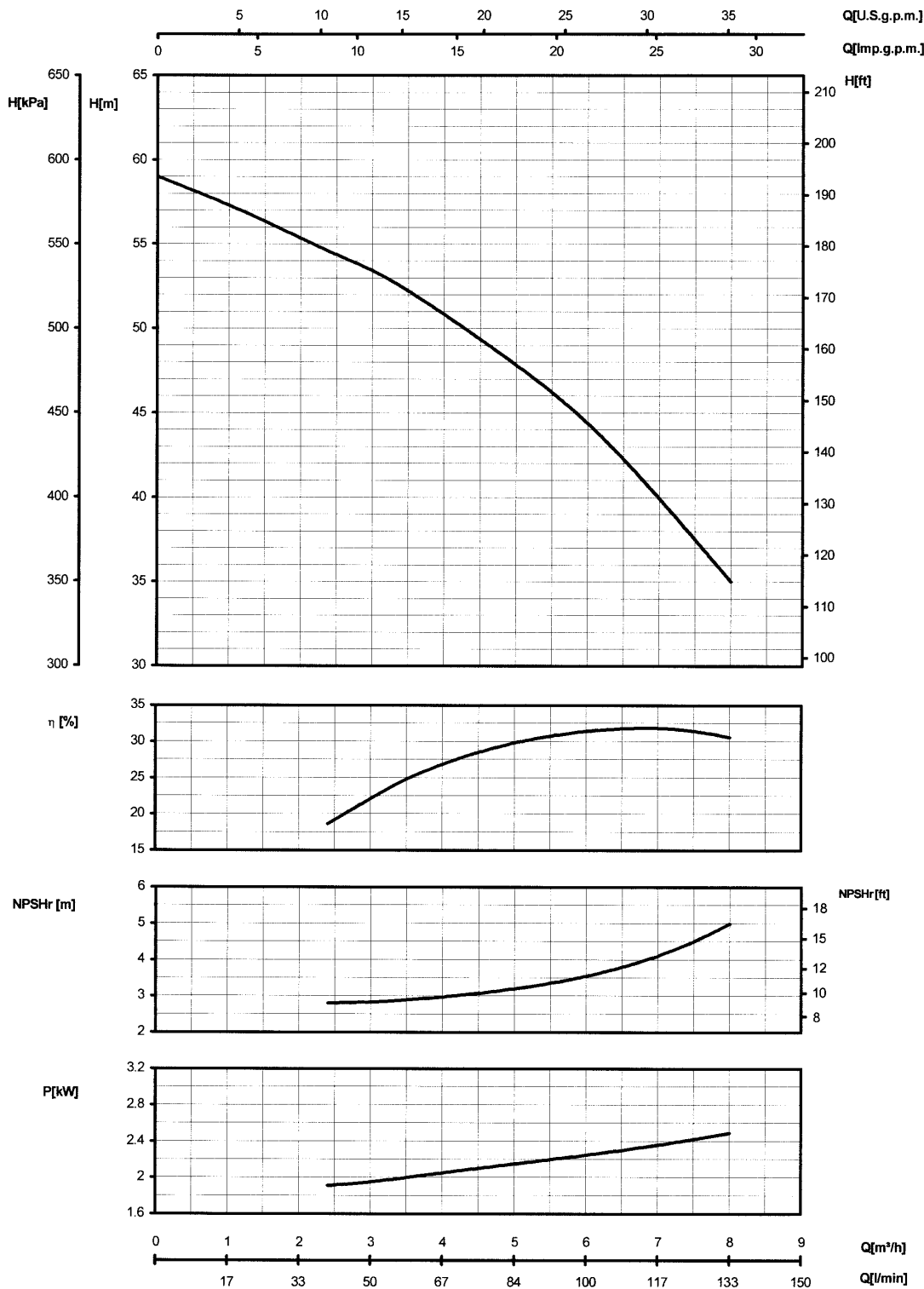
• The nominal power has an overload coefficient of 20% • La potencia nominal tiene un coeficiente de sobrecarga de 20%

• La puissance nominale a un coefficient de surcharge de 20% • Die Nennungsleistung hat einen Überlastkoeffizient von 20%

Le curve di prestazione sono basate su valori di viscosità cinematica = 1 mm²/s e densità pari a 1000 kg/m³. Tolleranza e curve secondo UNI/ISO 2548 - Classe C - Appendice B • The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to UNI/ISO 2548 - Class C - Appendix B • Las curvas de rendimiento se refieren a valores de viscosidad cinemática = 1 mm²/s y densidad de 1000 Kg/m³. Tolerancia de las curvas de acuerdo con UNI/ISO 2548 - Clase C - Apéndice B • Les courbes de performances sont basées sur des valeurs de viscosité cinématique égale à 1 mm²/s et une densité égale à 1000 kg/m³. Tolérance et courbes conformes aux normes UNI/ISO 2548 - Classe C - Appendice B. • Die Leistungskurven beruhen auf einer kinematischen Zähflüssigkeit von 1 mm²/s und einer Dichte von 1000 kg/m³. Abweichung und Kurven gemäß UNI/ISO 2548 - Klasse C - Anhang B.

CM1C

≅ 2850 1/min



La potenza nominale ha un coefficiente di sovraccarico del 15%
• The nominal power has an overload coefficient of 15% • La potencia nominal tiene un coeficiente de sobrecarga de 15%
• La puissance nominale a un coefficient de surcharge de 15% • Die Nennungsleistung hat einen Überlastkoeffizient von 15%

Le curve di prestazione sono basate su valori di viscosità cinematica = 1 mm²/s e densità pari a 1000 kg/m³. Tolleranza e curve secondo UNI/ISO 2548 - Classe C - Appendice B • The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to UNI/ISO 2548 - Class C - Appendix B • Las curvas de rendimiento se refieren a valores de viscosidad cinemática = 1 mm²/s y densidad de 1000 Kg/m³. Tolerancia de las curvas de acuerdo con UNI/ISO 2548 - Clase C - Apéndice B • Les courbes de performances sont basées sur des valeurs de viscosité cinématique égale à 1 mm²/s et une densité égale à 1000 kg/m³. Tolérance et courbes conformes aux normes UNI/ISO 2548 - Classe C - Appendice B • Die Leistungskurven beruhen auf einer kinematischen Zähflüssigkeit von 1 mm²/s und einer Dichte von 1000 kg/m³. Abweichung und Kurven gemäß UNI/ISO 2548 - Klasse C - Anhang B.

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Вологда(8172)26-41-59,
Воронеж(473)204-51-73,
Екатеринбург(343)384-55-89,
Иваново(4932)77-34-06,
Ижевск(3412)26-03-58,
Казань(843)206-01-48,
Калининград(4012)72-03-81,
Калуга(4842)92-23-67,
Кемерово(3842)65-04-62,
Киров(8332)68-02-04,

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Красноярск(391)204-63-61,
Курск(4712)77-13-04,
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Магнитогорск(3519)55-03-13,
Москва(495)268-04-70,
Мурманск(8152)59-64-93,
Набережные Челны(8552)20-53-41,
Нижний Новгород(831)429-08-12,
Новокузнецк(3843)20-46-81,
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Орел(4862)44-53-42,
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Пенза(8412)22-31-16,
Пермь(342)205-81-47,
Ростов-на-Дону(863)308-18-15,

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Санкт-Петербург(812)309-46-40,
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Ставрополь(8652)20-65-13,
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Тюмень(3452)66-21-18,
Ульяновск(8422)24-23-59,
Уфа(347)229-48-12,
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