swiss lifting solutions

TRANSLATION OF THE
SPECIAL MODELS • OPTIONS GPH and GPHT
ELECTRIC CHAIN HOIST TYPE

The instruction manual of the GP-models (9500.9002.1) is the basis for the special models. This attachment is part of the instruction manual. Only added or corrected chapters are listed

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11.17 Translation 9500.9004.1

Model GPH (Handy)

1 Description

Due to mounting the control handle directly on the load thread it enables a one-handed and accurate guiding of transport goods. Suitable for left and right-handed people. A quick fastening of loads is possible due to available load suspension devices (hook fixed, hook rotatable, threaded bolts M12). At the handy telescope model, an angle offers the possibility for eccentric loads to fix special constructions of load suspension devices. Optionally, a slack chain switch is available.

Model GPH 500 handy chain model (see figure 1-1):
The control handle is fixed at the chain end. The standard lifting height is 4 m.

Model GPHT 500 handy telescope model (see figure 1-2):
The telescope guidance allows the suspension of eccentric loads (max. torque 150 Nm). The lifting process takes place through the chain on the inside of the telescope guidance. The control handle is fixed at the chain end. For a soft start, these models are also available as frequency controlled model (FU). The standard lifting heights are 1200 mm, 1500 mm and 2000 mm.

Figure 1-1

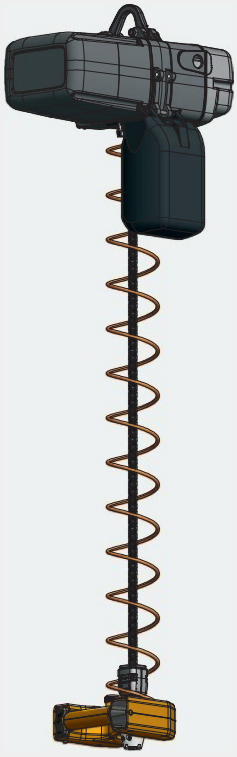
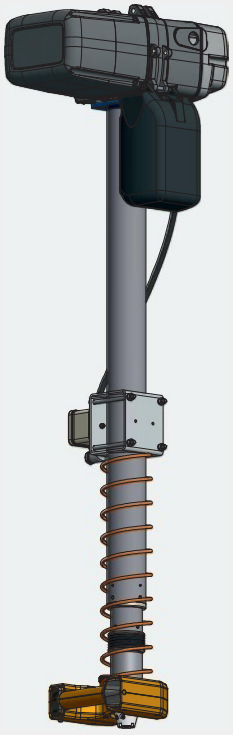


Figure 1-2



The frequency controlled model is delivered with a factory setting of 15 Hz for the first speed and 87 Hz for the second speed. The first speed and be reduced to a minimum of 8 Hz.

Load suspension device (see figure 1-3):
- Hook fixed (1), hook rotatable (2), threaded bolts M12 (3)
- Angle for eccentric load (4 only for GPHT)

Options:
- Slack chain switch (see figure 1-4)
- Frequency inverter (FU)
- Temperature monitoring
- Operating data counter

Figure 1-3

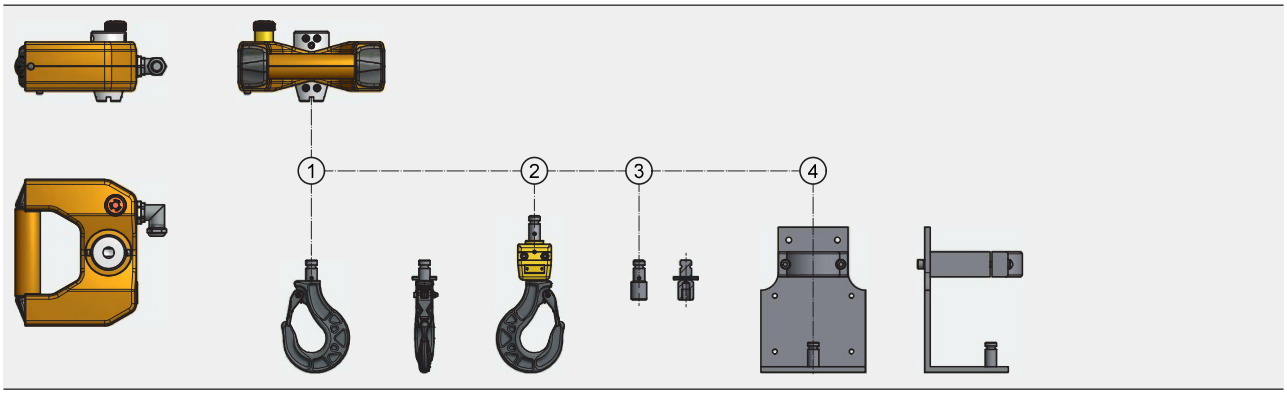


Figure 1-4

These hoists are designed to reduce repetitive manual handling, the Chain Handy & Telescopic Handy work perfectly with articulated jibs and KB Track Crane Systems.

The GIS Handy is a versatile hoisting appliance that has been designed with a bracket for easy mounting of manipulator arms, vacuum and lifting systems for repetitive handling of many types of loads.

The Handy allows product positioning through the 2 speed toggle switch and flexible hand guide control, in a comfortable and efficient way. This product has standard left and right hand operation and is available for safe lifting up to 500kg SWL.

The Telescopic Handy allows accurate product positioning through the 2 speed toggle switch and rigid telescopic guide system. This product has standard left and right hand operation and is available for safe lifting up to 250kg. The GIS Telescopic Handy allows the controlled and perfected handling of goods. The telescopic Handy is so rigid and smooth you can even transport liquids.

Three standard telescopic lifting heights are available from 1200mm to 2000mm, all of which can have eccentric loads.

The controls for either Handy unit are mounted adjacent to the load to provide safe handling and maximum operator control. The push button station will accept a load hook or a variety of other suspension units.

All Handy hoists have fast two-speed lifting, high duty factors and are fitted with an electrical limit switch and slipping clutch to prevent overloading.

2 Start-up

2.2 Connecting

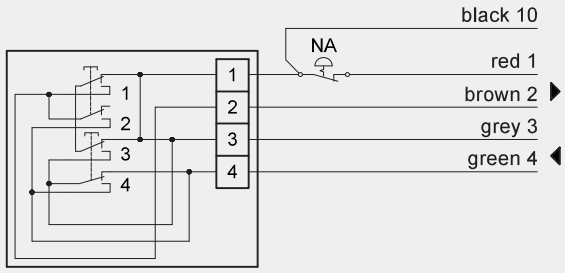
2.2.1 Electrical connection

The models GPH and GPHT are delivered fully equipped. The final positions are set optimally in the factory. Thus, only the main voltage (L1, L2, L3 and PE) needs to be connected to the corresponding terminals. When replacing the control coil, the strands are to be connected according to figure 1-5.

The rotation direction of the motor is to be controlled.

The chain can be guided precisely due to handy handle as control switch. An additional strain relief is not necessary. During operation, it needs to be ensured that the control coil is always turned back into the starting position.

Figure 1-5



3 Care and maintenance

3.2 Care and maintenance

3.2.4 Load chain

The load chain must be checked periodically for wear. For the handy telescope model, the chain container must be removed for visual check, cleaning and lubricating the chain. The telescope guidance is also to be controlled to the same way.

5 Appendix

5.1 Technical data

Table 5-1 Technical data GPH (three-phase version)

ISO (FEM) classification	M3 (1Bm) 150 s/h 25% duty	M4 (1Am) 180 s/h 30% duty	M5 (2m) 240 s/h 40% duty	M6 (3m) 300 s/h 50% duty	M7 (4m) 360 s/h 60% duty	M7 (4m) 360 s/h 60% duty	Lifting speed 50 Hz	Lifting speed 60 Hz	Motor type	No. of chain falls	Dead weight 4 m lift	Mains fuse (400 V, delayed)
Types	Capacity [kg]						[m/min]	[m/min]			[kg]	[A]
GPH 500/NF	-	-	500	400	320	250	8/2	9.6/2.4	80 B 8/2	1	25	6
GPH 500/SF	-	-	250	200	160	125	16/4	19.2/4.8	80 B 8/2	1	25	6

Table 5-2 Technical data GPH (three-phase version)

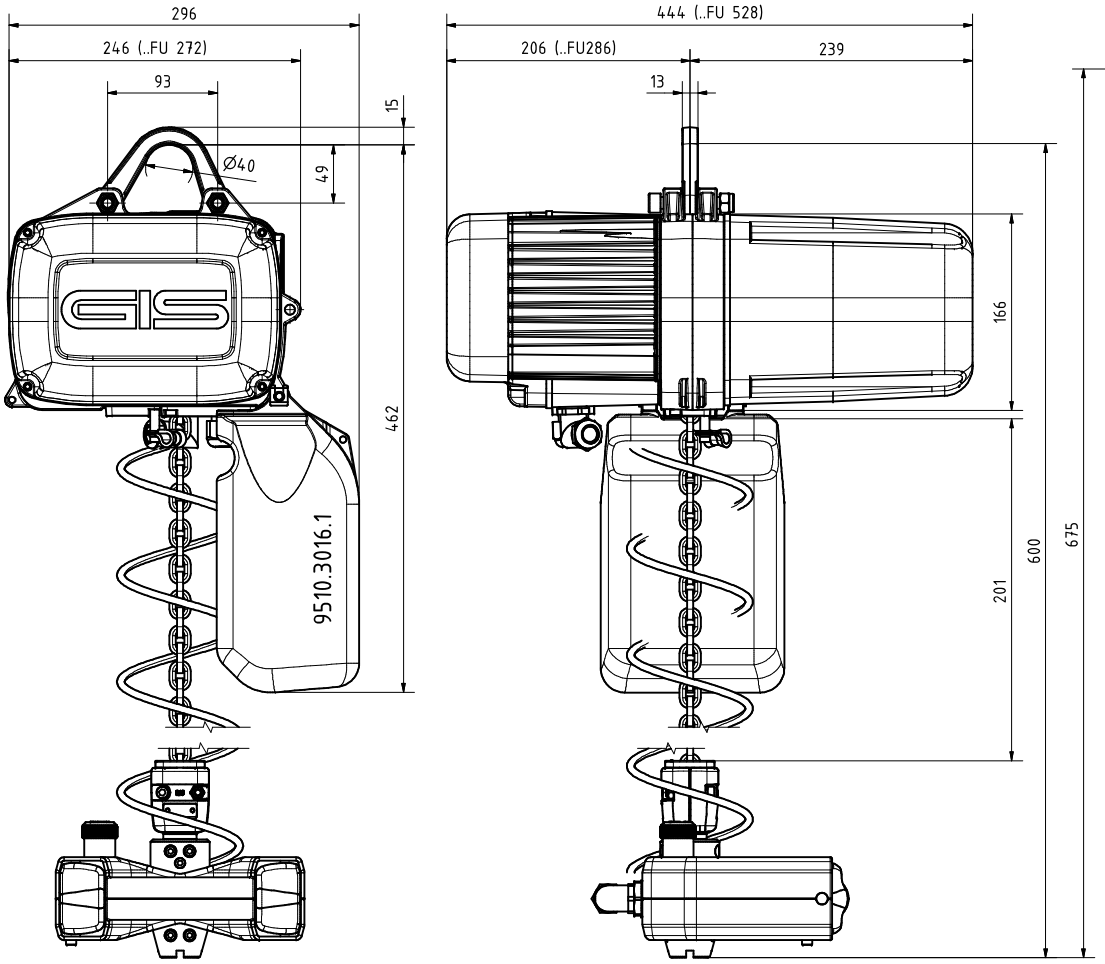
ISO (FEM) classification	M7 (4m) 360 s/h 60% duty	M7 (4m) 360 s/h 60% duty	M7 (4m) 360 s/h 60% duty	M7 (4m) 360 s/h 60% duty	M7 (4m) 360 s/h 60% duty	M7 (4m) 360 s/h 60% duty	Lifting speed 8/87 Hz	Lifting speed 15/87 Hz	Motor type	No. of chain falls	Dead weight 4 m lift	Mains fuse (400 V, delayed)
Types	Capacity [kg]						[m/min]	[m/min]			[kg]	[A]
GPH 500/NL FU	-	-	500	400	320	320	0.7/6.9	1.4/6.9	80 B 4	1	26	6
GPH 500/N FU	-	-	500	400	320	320	1.3/13.9	2.6/13.9	80 A 2	1	26	6

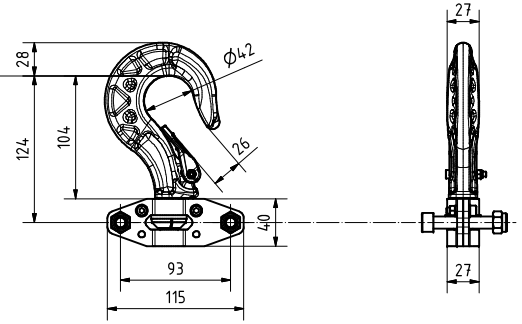
Table 5-3 Technical data GPHT (three-phase version)

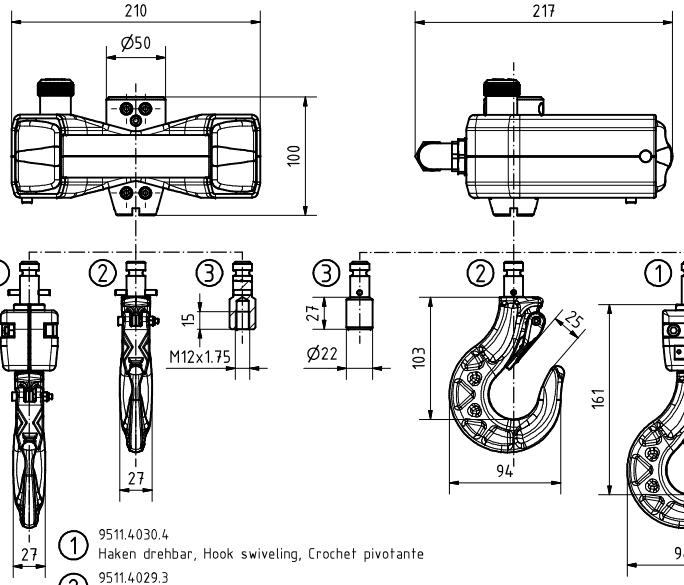
ISO (FEM) classification	M3 (1Bm) 150 s/h 25% duty	M4 (1Am) 180 s/h 30% duty	M5 (2m) 240 s/h 40% duty	M6 (3m) 300 s/h 50% duty	M7 (4m) 360 s/h 60% duty	M7 (4m) 360 s/h 60% duty	Lifting speed 50 Hz	Lifting speed 60 Hz	Motor type	No. of chain falls	Dead weight 1.5 m lift	Mains fuse (400 V, delayed)
Types	Capacity [kg]						[m/min]	[m/min]			[kg]	[A]
GPHT 500/NF	-	-	250	200	160	-	8/2	9.6/2.4	80 B 8/2	1	52	6
GPHT 500/SF	-	-	125	100	80	-	16/4	19.2/4.8	80 B 8/2	1	52	6

Table 5-4 Technical data GPHT (three-phase version)

ISO (FEM) classification	M7 (4m) 360 s/h 60% duty	M7 (4m) 360 s/h 60% duty	M7 (4m) 360 s/h 60% duty	M7 (4m) 360 s/h 60% duty	M7 (4m) 360 s/h 60% duty	M7 (4m) 360 s/h 60% duty	Lifting speed 8/87 Hz	Lifting speed 15/87 Hz	Motor type	No. of chain falls	Dead weight 1.5 m lift	Mains fuse (400 V, delayed)
Types	Capacity [kg]						[m/min]	[m/min]			[kg]	[A]
GPHT 500/NL FU	-	-	250	200	160	160	0.7/6.9	1.4/6.9	80 B 4	1	53	6
GPHT 500/N FU	-	-	250	200	160	160	1.3/13.9	2.6/13.9	80 A 2	1	53	6







① 9511.4030.4
Haken drehbar, Hook swiveling, Crochet pivotante

② 9511.4029.3
Haken, Hook, Crochet

③ 9210.4009.4
Kupplungsstück, Connector, Pièce d'accouplement

Verfügbare Hubhöhe Available lifting height Battement levée	4m

Triebwerksgruppe Classification Groupe	M4/1Am	M5/2m	M6/3m	M7/4m	M7/4m	Hub-geschw. Lifting speed Vitesse de levage	Hub-geschw. Lifting speed Vitesse de levage	Leistung Motor Motor power Puissance du moteur	3Ph 3x400V 50Hz	Gewicht mit 4m Hub Weight with 4m lift Poids avec une capacité de levage de 4m	Ketten-sicherheit statisch Chain safety static Sécurité de la Chaîne statique
Schaltungen /h Switches /h commutations /h	180	240	300	360	360						
ED % Duty factor % Facteur de marche %	30%	40%	50%	60%	60%						
	kg	kg	kg	kg	kg	m/min. 50Hz	m/min. 60Hz	kW (50 Hz)	A	kg	(500kg)
GPH500/NF	-	500	400	320	250	8 / 2	9.6 / 2.4	0.72 / 0.18	2.8 / 1.7	25	8 : 1
GPH500/SF	-	250	200	160	125	16 / 4	19.2 / 4.8	0.72 / 0.18	2.8 / 1.7	25	-
-	-	4m/M7	4m/M7	4m/M7	4m/M7	15/87Hz	15/60Hz	kW (50Hz)	A	kg	(500kg)
GPH500/NL FU	-	500	400	320	250	1.2 / 6.9	-	0.55	4.4	26	8 : 1
GPH500/N FU	-	500	400	320	250	-	2.4 / 9.6	0.72	4.4	26	8 : 1

- Schutzart nach DIN 40050:	IP65
- Isolationsklassse:	F
- Anschlusssicherung generell:	10A
- Lasthaken DIN 15401	025
- Triebwerksgruppe nach ISO 4301-1 / FEM	

- Protection DIN 40050:	IP65
- Insulation class:	F
- Fuse protection generally:	10A
- Load hook DIN 15401	025
- Classification according to ISO 4301-1 / FEM	

- Classe de protection DIN 40050:	IP65
- Classe d'isolation:	F
- Fusible général:	10A
- Crochet de levage DIN 15401	025
- Groupe selon ISO 4301-1 / FEM	

Profilstahlkette Mangan phospatiert	Profil steel chain manganese phosphated	Chaîne en acier profilé phosphatée au manganèse
Güteklasse, nach Grade, according Classe qualité, selon	DAT (8SS), EN 818-7	
Kettengrösse Chain size Dimesion de la chaîne	5.25mm x 15mm	
Kettengewicht / Meter Chain weight / meter Poids chaîne / mètre	0.69kg	

GPH500

Massbild; Schematic draw; Liste de dim.

Massstab	Freigegeben		
1/3	Rev.	Datum	User
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	Gezeichnet	22.01.2016	C.Bisang

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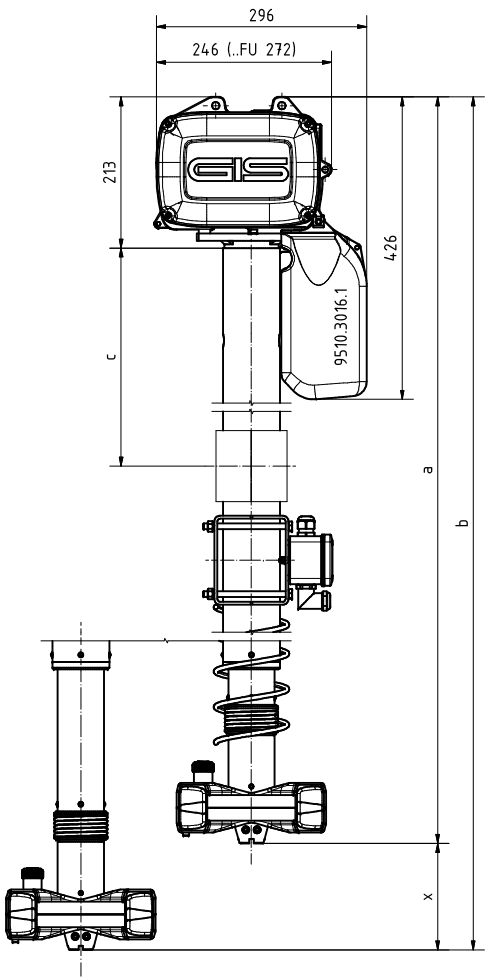
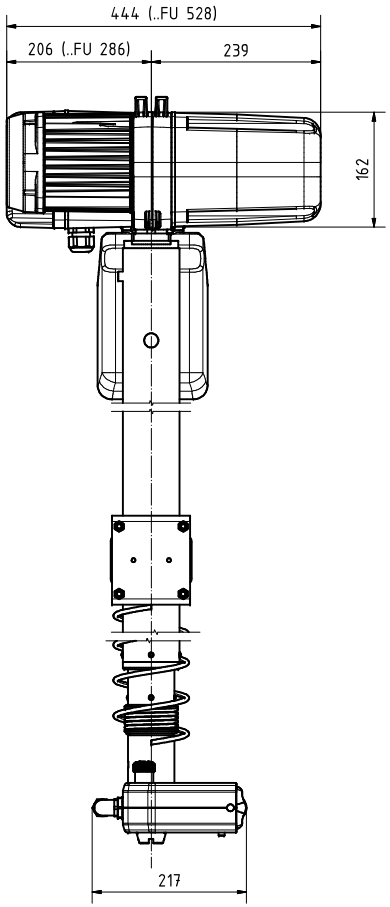
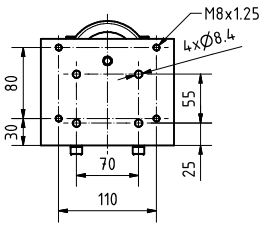
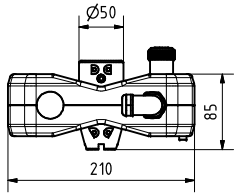
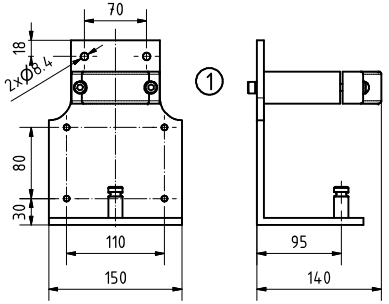
9511.9206.5 | Revision B

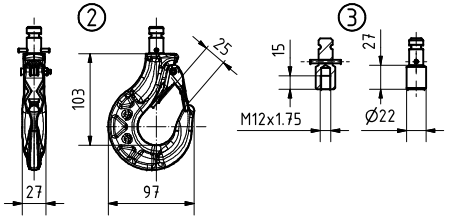


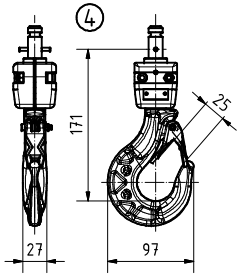












① 9211.4055.4 Aufnahmevorrichtung,
Suspension attachement, Support pour charges

② 9511.4029.3 Lasthaken,
Load hook, Crochet de charge

③ 9210.4009.4 Kupplungsstück,
Connector, Pièce d'accouplement

④ 9511.4030.4 Lasthaken drehbar
Load hook swiveling, Crochet de charge pivotante

Max. exzentrisches Moment 150Nm
Max. eccentric moment 150Nm
Max. excentrique moment 150Nm

Hubhöhe x Lifting height x Hauteur de levage x	1200			1500			2000		
	a	b	c	a	b	c	a	b	c
GPHT 500	1510	2710	300 ÷ 690	1510	3010	300 ÷ 690	1760	3760	300 ÷ 940

Triebwerksgruppe Classification Groupe	1Am/M4	2m/M5	3m/M6	4m/M7	4m/M7	Hub- geschw. Lifting speed Vitesse de levage	Hub- geschw. Lifting speed Vitesse de levage	Leistung Motor Motor power Puissance du moteur	3Ph 3x400V 50Hz	Gewicht mit 2m Hub Weight with 2m lift Poids avec une capacité de levage de 2m	Ketten- sicherheit statisch Chain safety static Sécurité de la Chaîne statique
Schaltungen /h Switches /h commutations /h	240	300	300	300	300						
ED % Duty factor % Facteur de marche %	40%	50%	50%	50%	60%						
	kg	kg	kg	kg	kg	m/min. 50Hz	m/min. 60Hz	kW (50 Hz)	A	kg	(M5/2m)
GPHT500/NF	-	250	200	160	-	8 / 2	9.6 / 2.4	0.72 / 0.18	2.8 / 1.7	52	8 : 1
GPHT500/SF	-	250	200	160	-	16 / 4	19.2 / 4.8	0.72 / 0.18	2.8 / 1.7	52	8 : 1
-	-	4m/M7	4m/M7	4m/M7	-	15 / 87Hz	15 / 60Hz	kW (50 Hz)	A	kg	(M5/2m)
GPHT500/NL FU	-	250	200	160	-	1.2 / 6.9	-	0.55	-	53	8 : 1
GPHT500/N FU	-	250	200	160	-	-	2.4 / 9.6	0.55	-	53	8 : 1

- Schutzart nach DIN 40050:	IP65
- Isolationsklassse:	F
- Anschlusssicherung generell:	10A
- Lasthaken DIN 15401	025
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- Insulation class:	F
- Fuse protection generally:	10A
- Load hook DIN 15401	025
- Classification according to ISO 4301-1 / FEM	

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- Classe d'isolation:	F
- Fusible général:	10A
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- Groupe selon ISO 4301-1 / FEM	

Profilstahlkette Mangan phospatiert	Profil steel chain manganese phosphated	Chaîne en acier profilé phosphatée au manganèse
Güteklasse, nach Grade, according Classe qualité, selon	DAT (8SS), EN 818-7	
Kettengrösse Chain size Dimesion de la chaîne	5.25mm x 15mm	
Kettengewicht / Meter Chain weight / meter Poids chaîne / mètre	0.69kg	

GPHT500

Massbild; Schematic draw; Liste de dim.

Massstab 1:5

Freigegeben		
Rev.	Datum	User
B	19.02.2018	P.ENGEL
Gezeichnet	01.02.2016	D.PAREKKA

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9511.9207.5 | Revision B