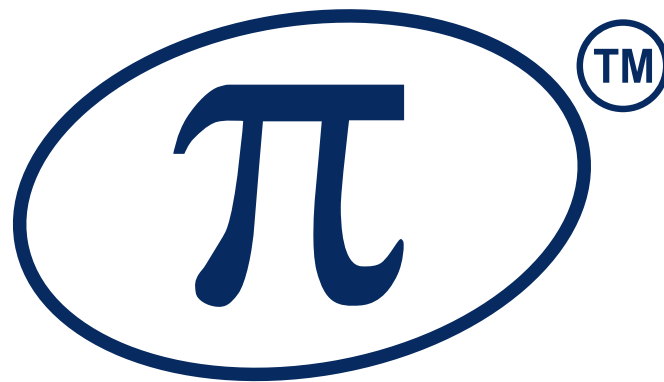


PROTON PRODUCTS PH SERIES PREHEATERS PERFORMANCE GUIDES

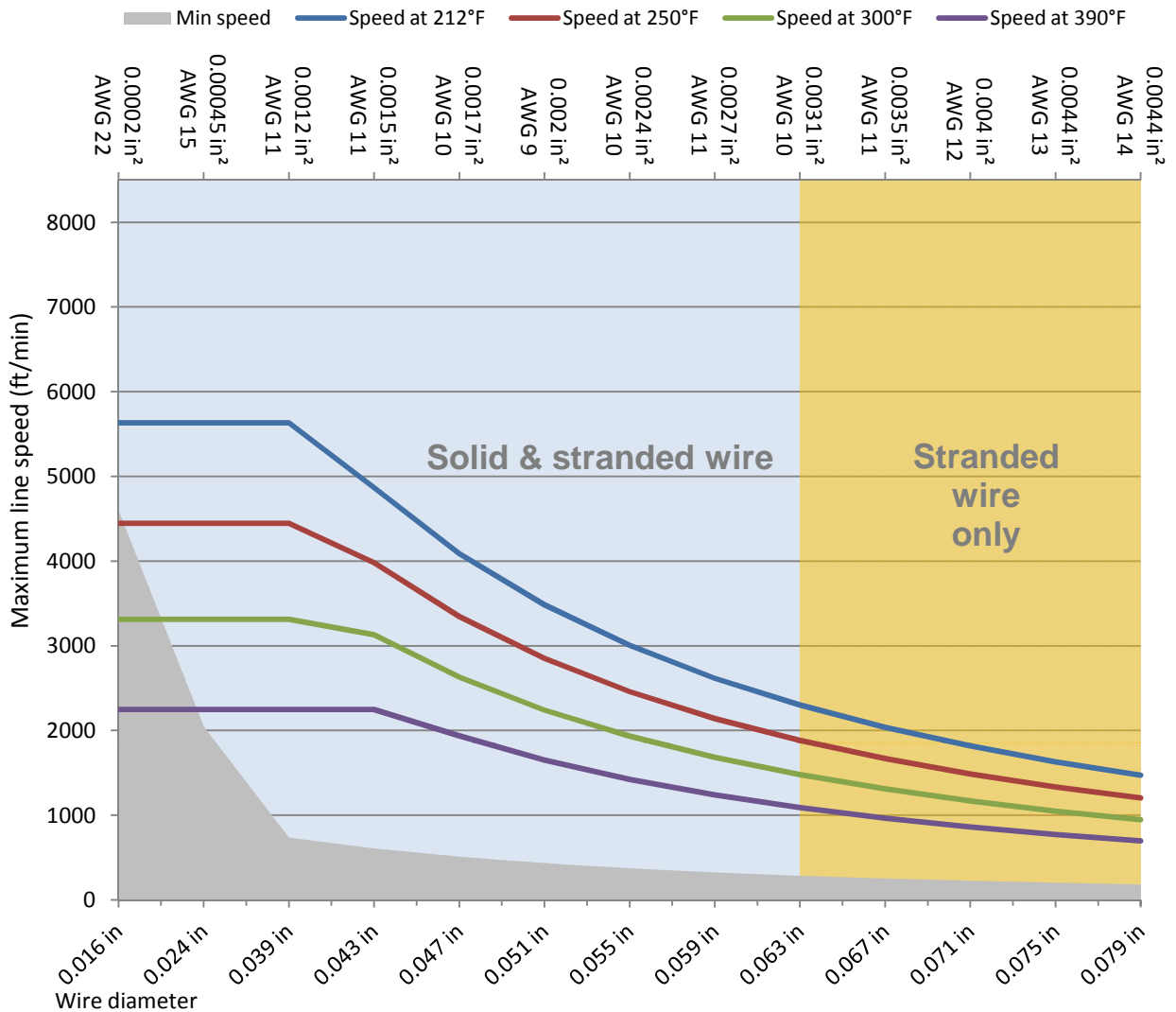


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PH160-10-200



Max. solid wire diameter:	0.063in (1.60mm)
Max. stranded wire area / diam:	0.0047in² (3mm²) / 0.077in (1.95mm)
Material:	Copper (Can also preheat aluminium*)
Max. wire temperature:	392°F
Power supply:	200 VAC 3-phase
Input voltage:	180 V to 220 V, 47~65 Hz
Power rating:	10 kW
Pulley diameter:	6.3 inch (160 mm)
Wire line height:	36.6 to 40.2 inch (980 to 1200 mm)

* Contact Proton Products for performance data for non-copper wire materials
 These data are provided as a guide only. For more information, contact Proton Products.
 Min speed calculations based on pulley rim reaching 95% of its final temperature after 300s.

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PH160-12-400



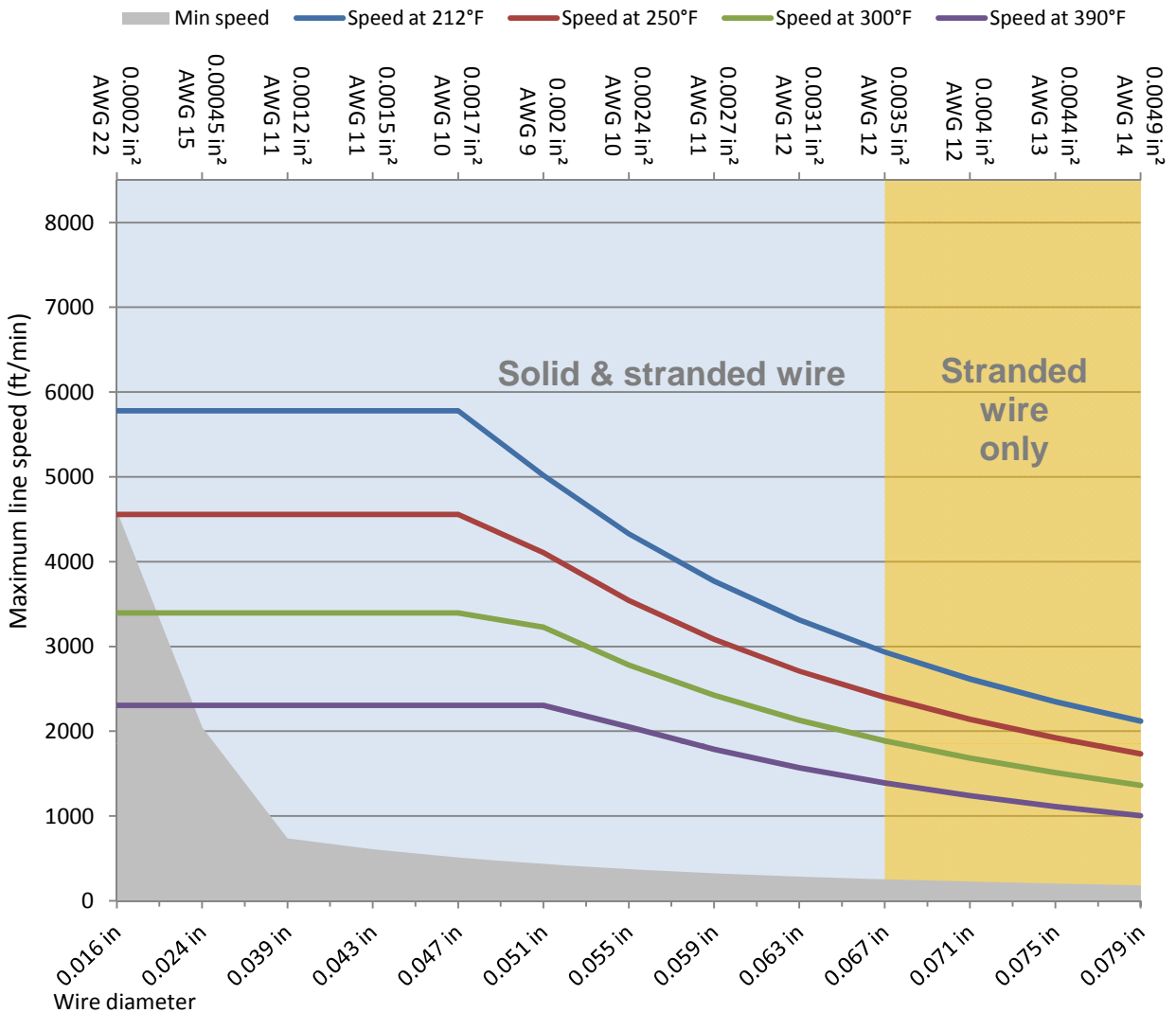
Max. solid wire diameter:	0.063in (1.60mm)
Max. stranded wire area / diam:	0.0047in² (3mm²) / 0.077in (1.95mm)
Material:	Copper (Can also preheat aluminium*)
Max. wire temperature:	392°F
Power supply:	400 VAC 3-phase
Input voltage:	360 V to 440 V, 47~65 Hz
Power rating:	12 kW
Pulley diameter:	6.3 inch (160 mm)
Wire line height:	36.6 to 40.2 inch (980 to 1200 mm)

* Contact Proton Products for performance data for non-copper wire materials
 These data are provided as a guide only. For more information, contact Proton Products.
 Minimum speed based on the time at which pulley rim reaches 95% of its final temperature.

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PH160-12-480



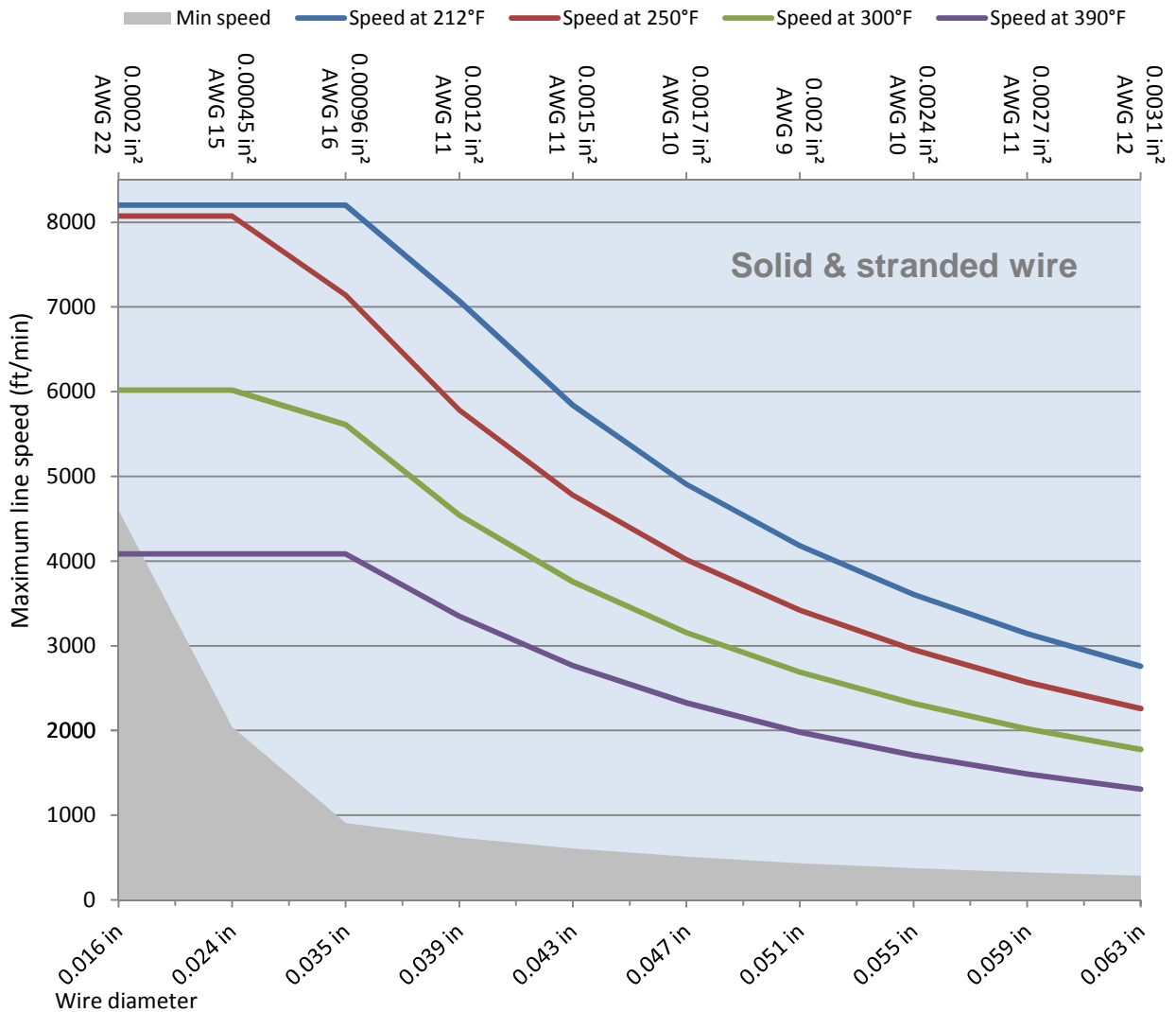
Max. solid wire diameter:	0.063in (1.60mm)
Max. stranded wire area / diam:	0.0047in² (3mm²) / 0.077in (1.95mm)
Material:	Copper (Can also preheat aluminium*)
Max. wire temperature:	392°F
Power supply:	480 VAC 3-phase
Input voltage:	440 V to 500 V, 47~65 Hz
Power rating:	12 kW
Pulley diameter:	6.3 inch (160 mm)
Wire line height:	36.6 to 40.2 inch (980 to 1200 mm)

* Contact Proton Products for performance data for non-copper wire materials
 These data are provided as a guide only. For more information, contact Proton Products.
 Minimum speed based on the time at which pulley rim reaches 95% of its final temperature.

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PH160-12-400HS



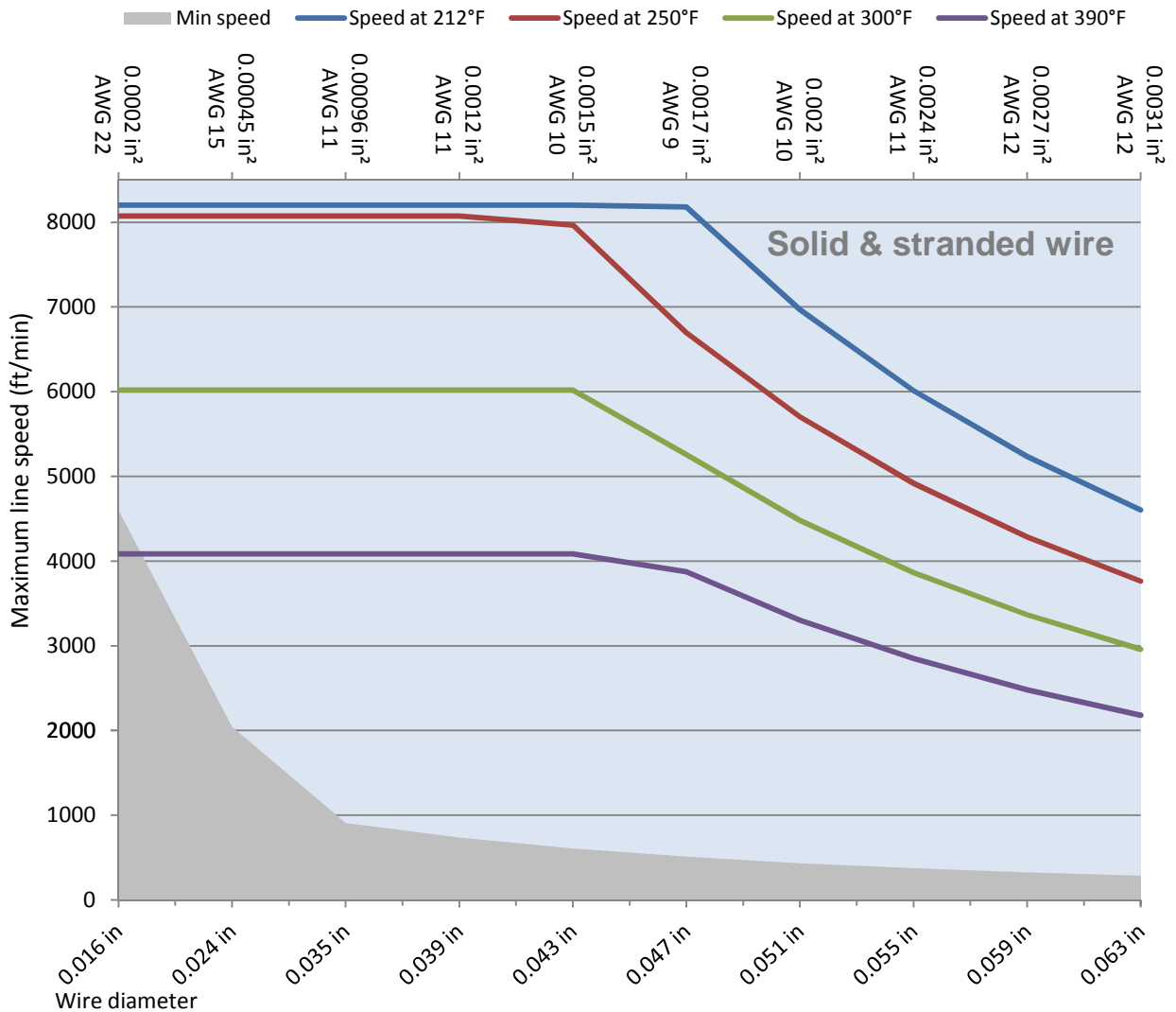
Max. solid wire diameter:	0.063in (1.60mm)
Max. stranded wire area / diam:	0.0047in² (3mm²) / 0.077in (1.95mm)
Material:	Copper (Can also preheat aluminium*)
Max. wire temperature:	392°F
Power supply:	400 VAC 3-phase
Input voltage:	360 V to 440 V, 47~65 Hz
Power rating:	12 kW
Pulley diameter:	6.3 inch (160 mm)
Wire line height:	36.6 to 40.2 inch (980 to 1200 mm)

* Contact Proton Products for performance data for non-copper wire materials
 These data are provided as a guide only. For more information, contact Proton Products.
 Minimum speed based on the time at which pulley rim reaches 95% of its final temperature.

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PH160-20-400HS



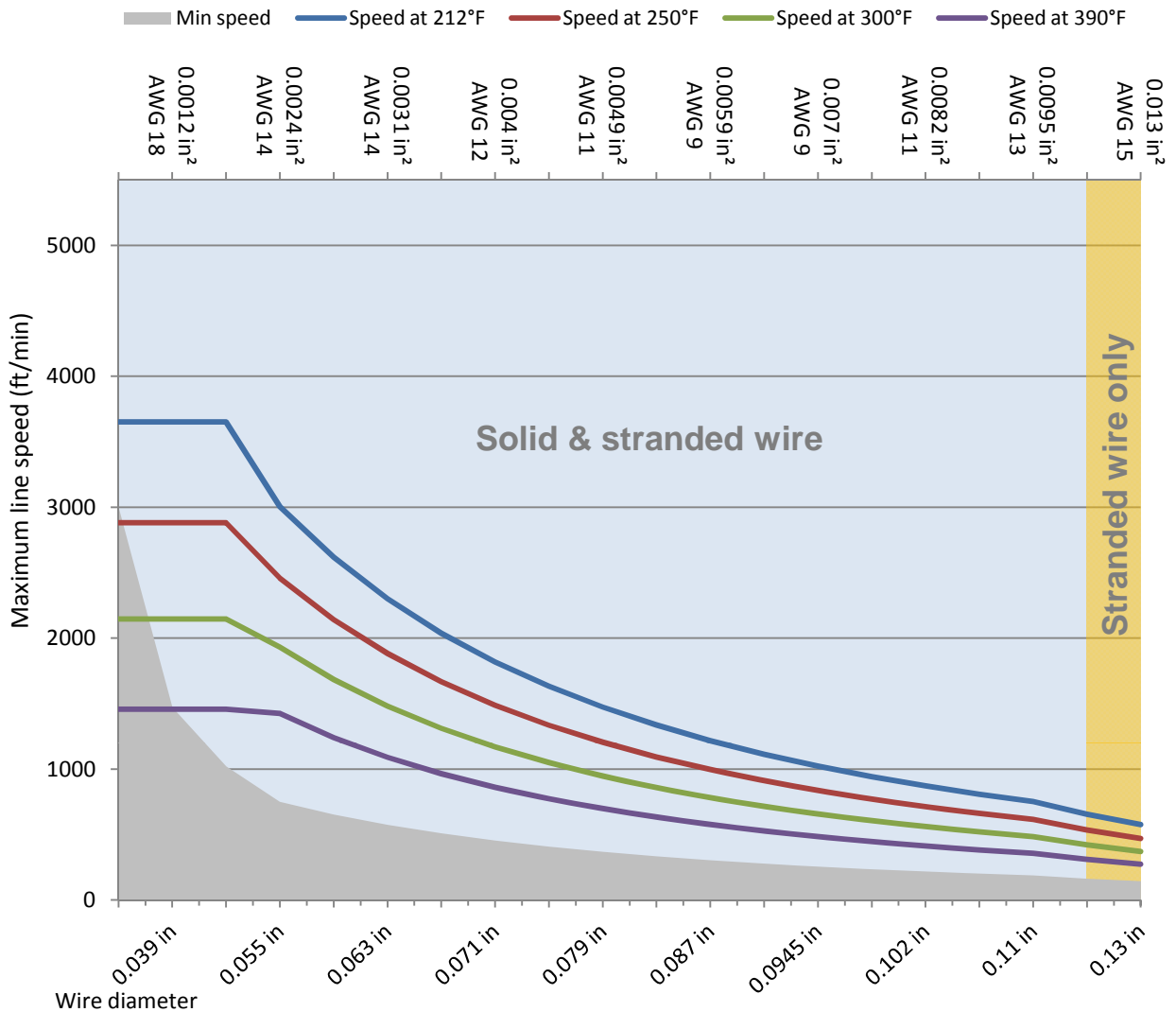
Max. solid wire diameter:	0.063in (1.60mm)
Max. stranded wire area / diam:	0.0047in² (3mm²) / 0.077in (1.95mm)
Material:	Copper (Can also preheat aluminium*)
Max. wire temperature:	392°F
Power supply:	400 VAC 3-phase
Input voltage:	360 V to 440 V, 47~65 Hz
Power rating:	20 kW
Pulley diameter:	6.3 inch (160 mm)
Wire line height:	36.6 to 40.2 inch (980 to 1200 mm)

* Contact Proton Products for performance data for non-copper wire materials
 These data are provided as a guide only. For more information, contact Proton Products.
 Minimum speed based on the time at which pulley rim reaches 95% of its final temperature.

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PH300-10-200



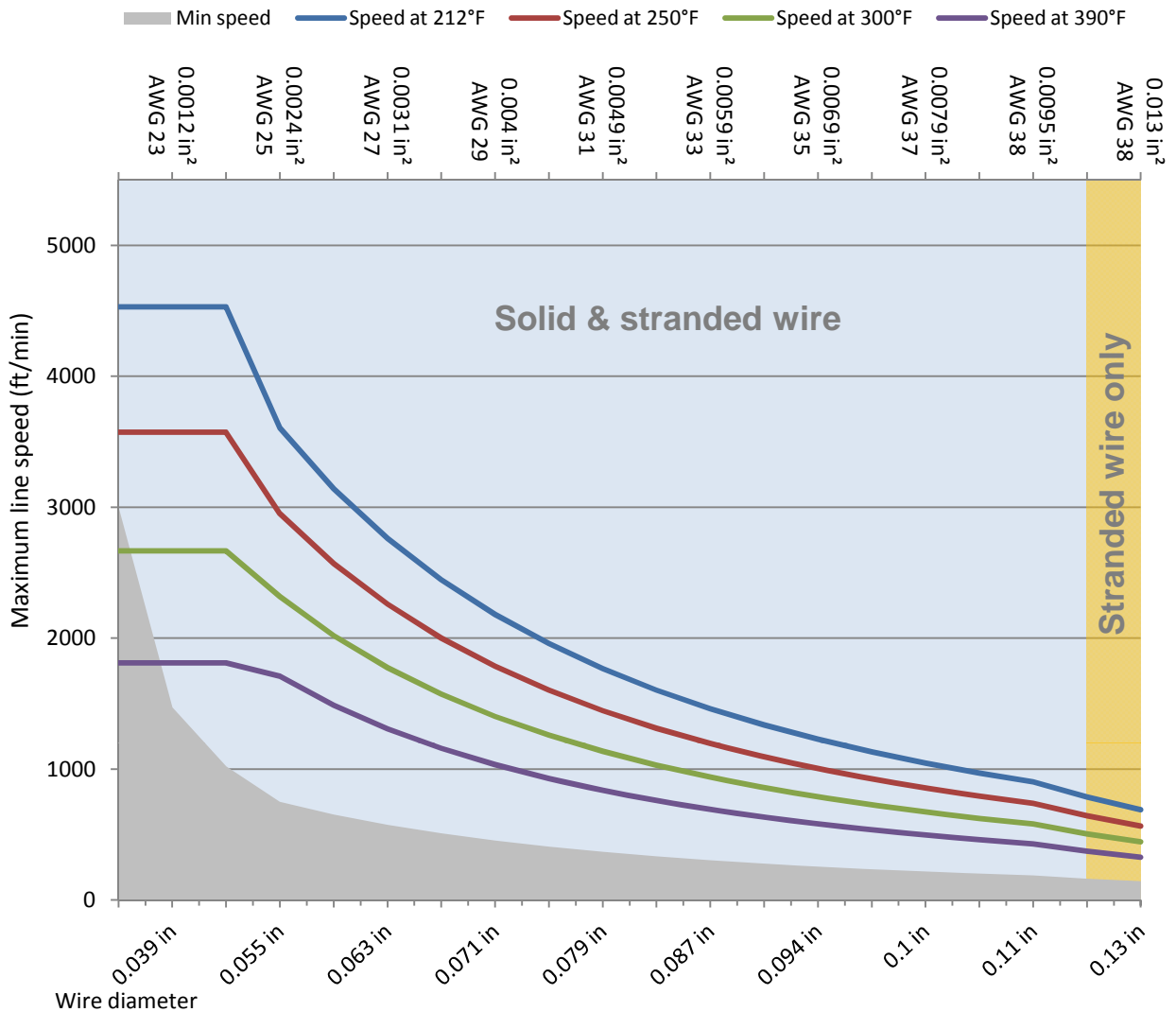
Max. solid wire diameter:	0.12in (3.00mm)
Max. stranded wire area / diam:	0.012in² (8mm²) / 0.13in (3.2mm)
Material:	Copper (Can also preheat aluminium*)
Max. wire temperature:	392°F
Power supply:	200 VAC 3-phase
Input voltage:	180 V to 220 V, 47~65 Hz
Power rating:	10 kW
Pulley diameter:	11.8 inch (300 mm)
Wire line height:	36.6 to 40.2 inch (980 to 1200 mm)

* Contact Proton Products for performance data for non-copper wire materials
 These data are provided as a guide only. For more information, contact Proton Products.
 Minimum speed based on the time at which pulley rim reaches 95% of its final temperature.

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PH300-12-400



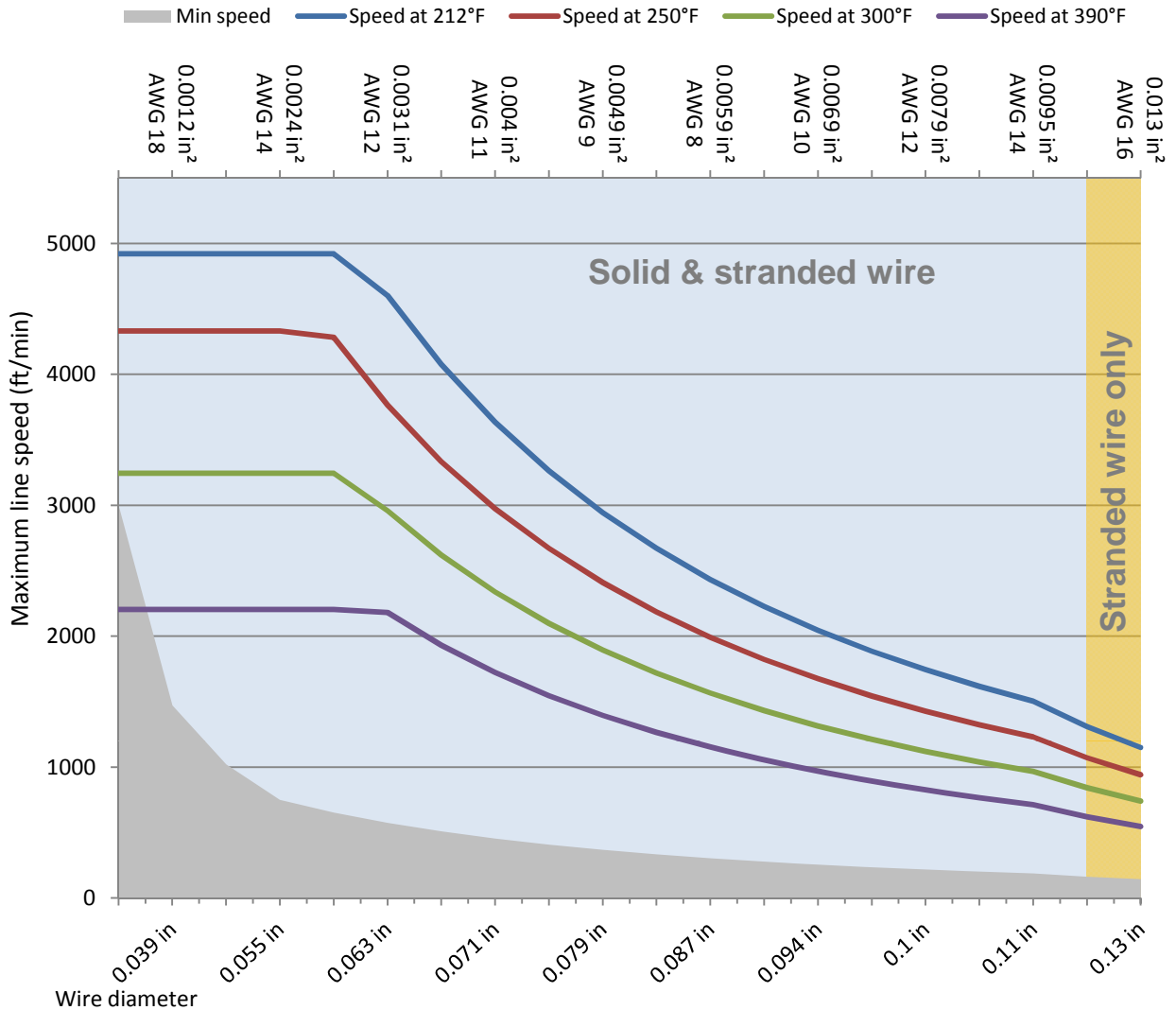
Max. solid wire diameter:	0.12in (3.00mm)
Max. stranded wire area / diam:	0.012in² (8mm²) / 0.13in (3.2mm)
Material:	Copper (Can also preheat aluminium*)
Max. wire temperature:	392°F
Power supply:	400 VAC 3-phase
Input voltage:	360 V to 440 V, 47~65 Hz
Power rating:	12 kW
Pulley diameter:	11.8 inch (300 mm)
Wire line height:	36.6 to 40.2 inch (980 to 1200 mm)

* Contact Proton Products for performance data for non-copper wire materials
 These data are provided as a guide only. For more information, contact Proton Products.
 Minimum speed based on the time at which pulley rim reaches 95% of its final temperature.

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PH300-20-400



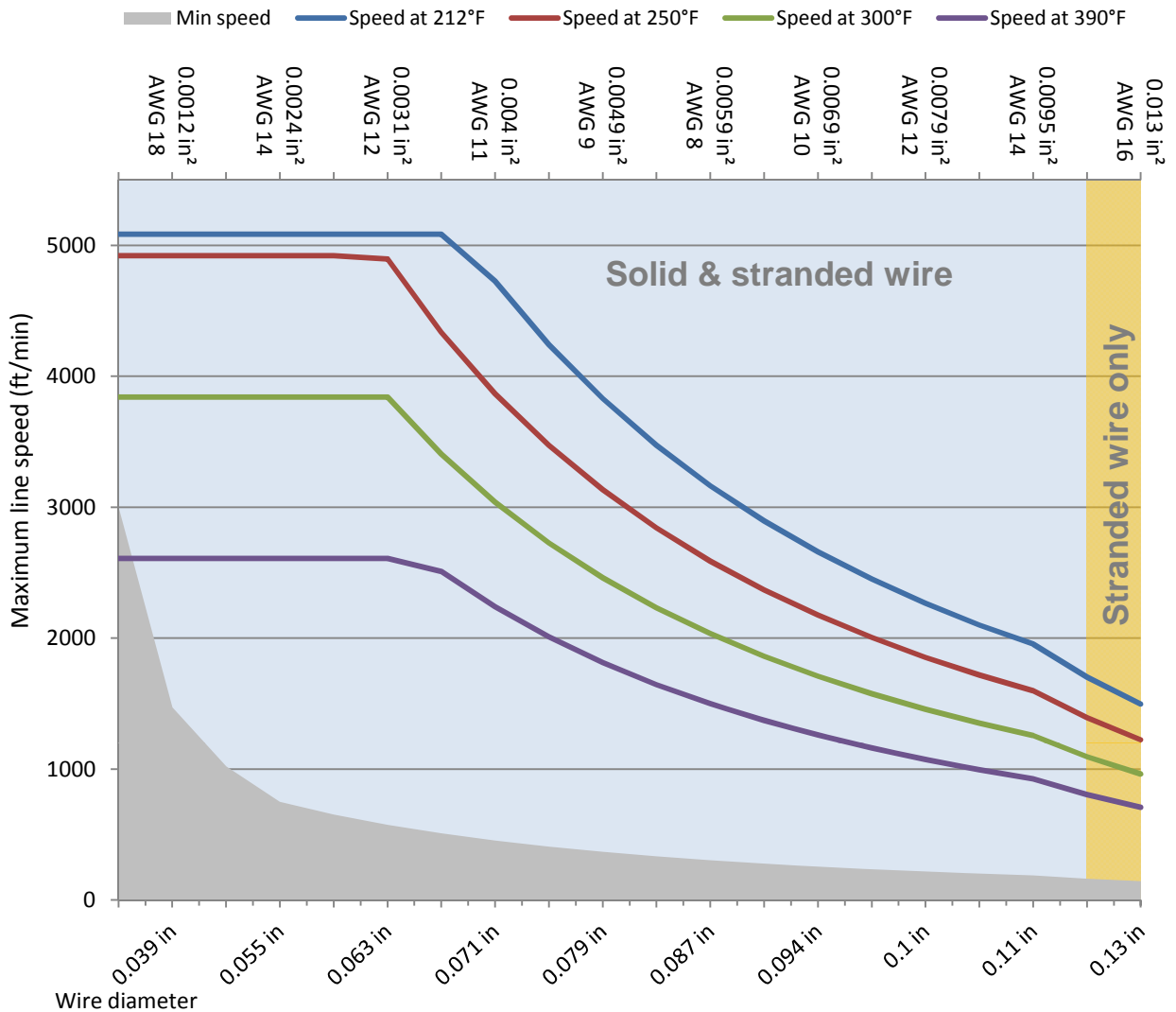
Max. solid wire diameter:	0.12in (3.00mm)
Max. stranded wire area / diam:	0.012in² (8mm²) / 0.13in (3.2mm)
Material:	Copper (Can also preheat aluminium*)
Max. wire temperature:	392°F
Power supply:	400 VAC 3-phase
Input voltage:	360 V to 440 V, 47~65 Hz
Power rating:	20 kW
Pulley diameter:	11.8 inch (300 mm)
Wire line height:	36.6 to 40.2 inch (980 to 1200 mm)

* Contact Proton Products for performance data for non-copper wire materials
 These data are provided as a guide only. For more information, contact Proton Products.
 Minimum speed based on the time at which pulley rim reaches 95% of its final temperature.

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PH300-25-400



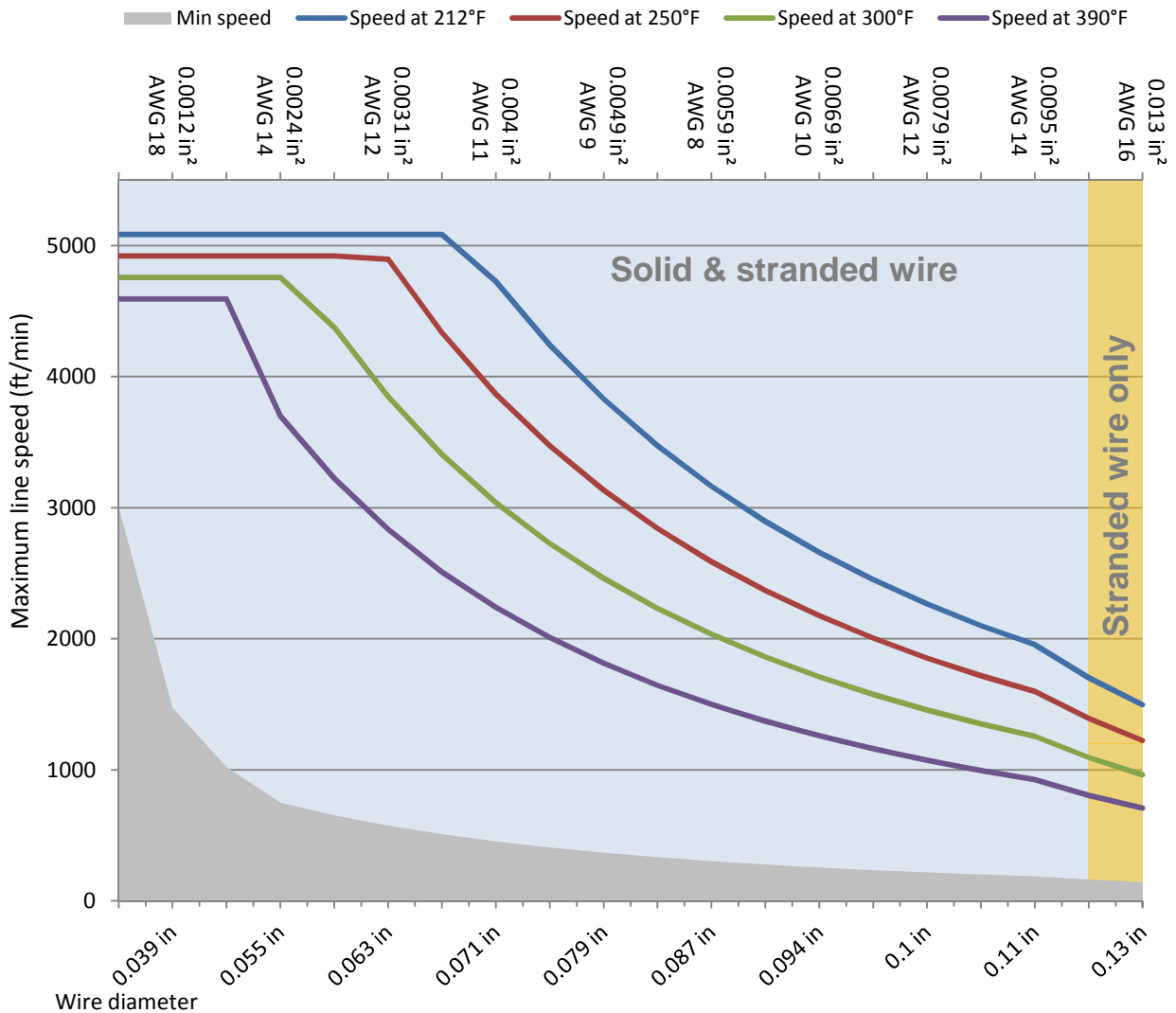
Max. solid wire diameter:	0.12in (3.00mm)
Max. stranded wire area / diam:	0.012in² (8mm²) / 0.13in (3.2mm)
Material:	Copper (Can also preheat aluminium*)
Max. wire temperature:	392°F
Power supply:	400 VAC 3-phase
Input voltage:	360 V to 440 V, 47~65 Hz
Power rating:	25 kW
Pulley diameter:	11.8 inch (300 mm)
Wire line height:	36.6 to 40.2 inch (980 to 1200 mm)

* Contact Proton Products for performance data for non-copper wire materials
 These data are provided as a guide only. For more information, contact Proton Products.
 Minimum speed based on the time at which pulley rim reaches 95% of its final temperature.

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PH300-25-400HT



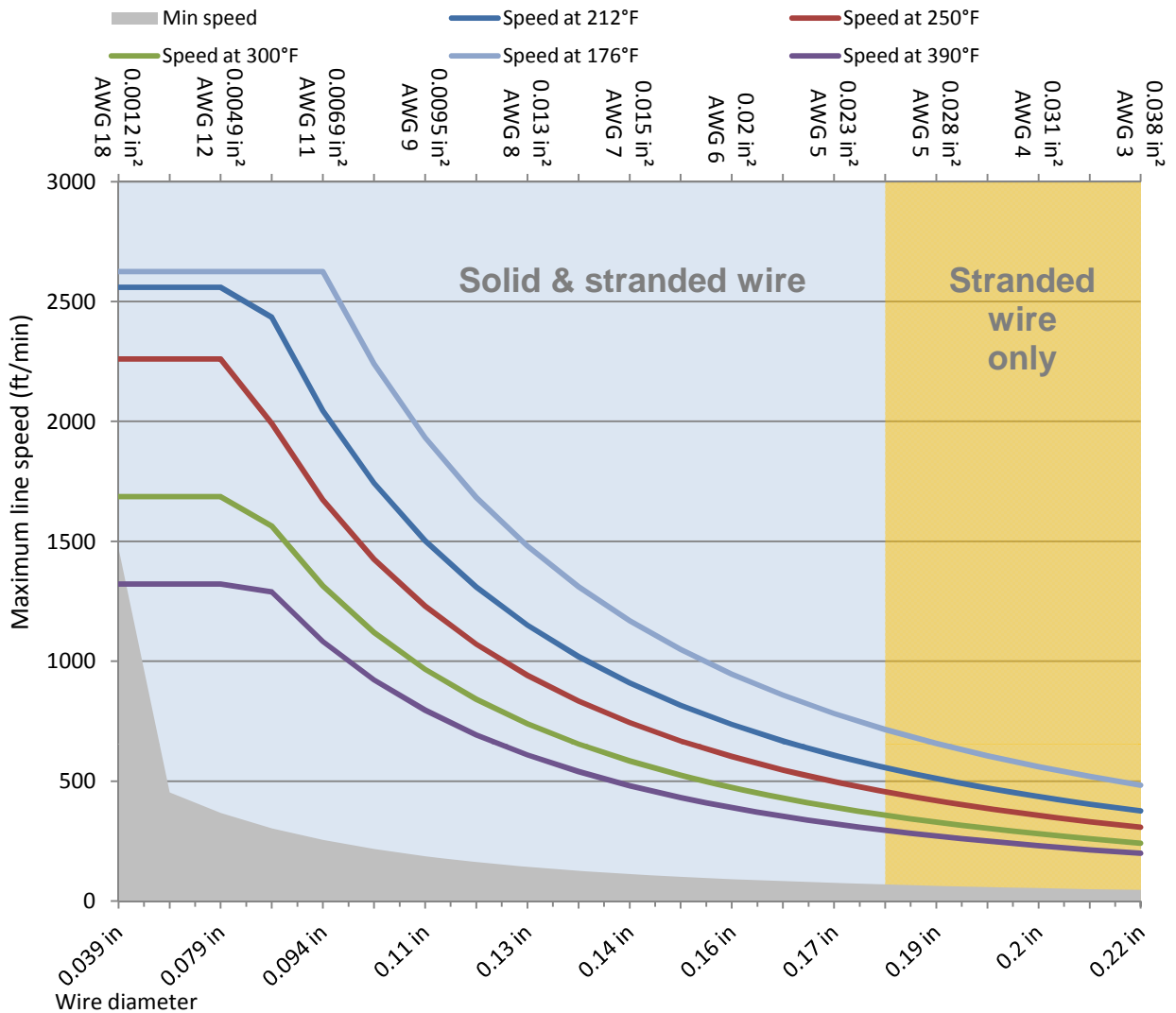
Max. solid wire diameter:	0.12in (3.00mm)
Max. stranded wire area / diam:	0.012in² (8mm²) / 0.13in (3.2mm)
Material:	Copper (Can also preheat aluminium*)
Max. wire temperature:	572°F
Power supply:	400 VAC 3-phase
Input voltage:	360 V to 440 V, 47~65 Hz
Power rating:	25 kW
Pulley diameter:	11.8 inch (300 mm)
Wire line height:	36.6 to 40.2 inch (980 to 1200 mm)

* Contact Proton Products for performance data for non-copper wire materials
 These data are provided as a guide only. For more information, contact Proton Products.
 Minimum speed based on the time at which pulley rim reaches 95% of its final temperature.

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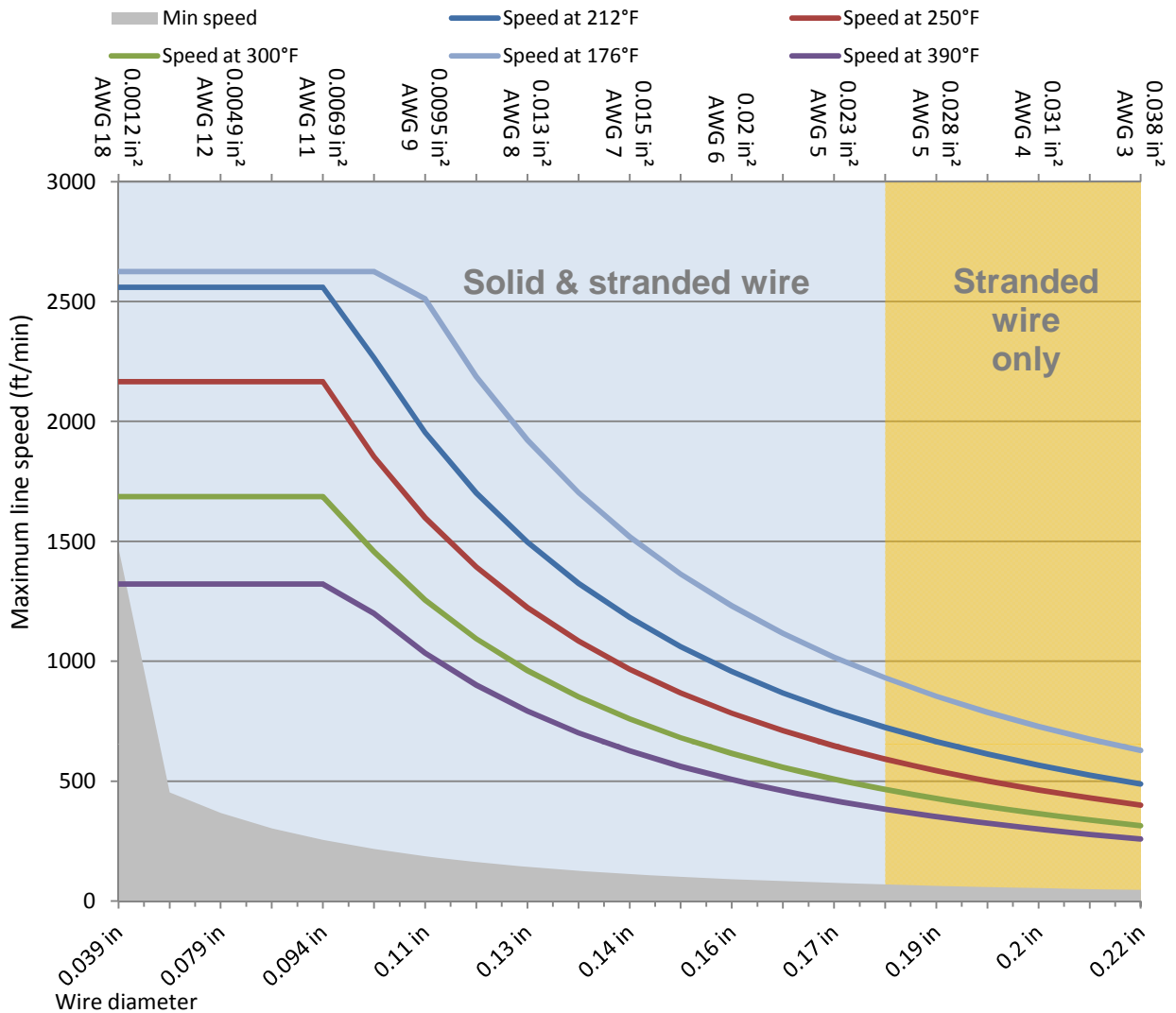
PH450-20-400



Max. solid wire diameter:	0.18in (4.5mm)
Max. stranded wire area / diam:	0.039in² (25mm²) / 0.22in (5.64mm)
Material:	Copper (Can also preheat aluminium*)
Max. wire temperature:	392°F
Power supply:	400 VAC 3-phase
Input voltage:	360 V to 440 V, 47~65 Hz
Power rating:	20 kW
Pulley diameter:	17.7 inch (450 mm)
Wire line height:	36.6 to 40.2 inch (980 to 1200 mm)

* Contact Proton Products for performance data for non-copper wire materials
 These data are provided as a guide only. For more information, contact Proton Products.
 Minimum speed based on the time at which pulley rim reaches 95% of its final temperature.

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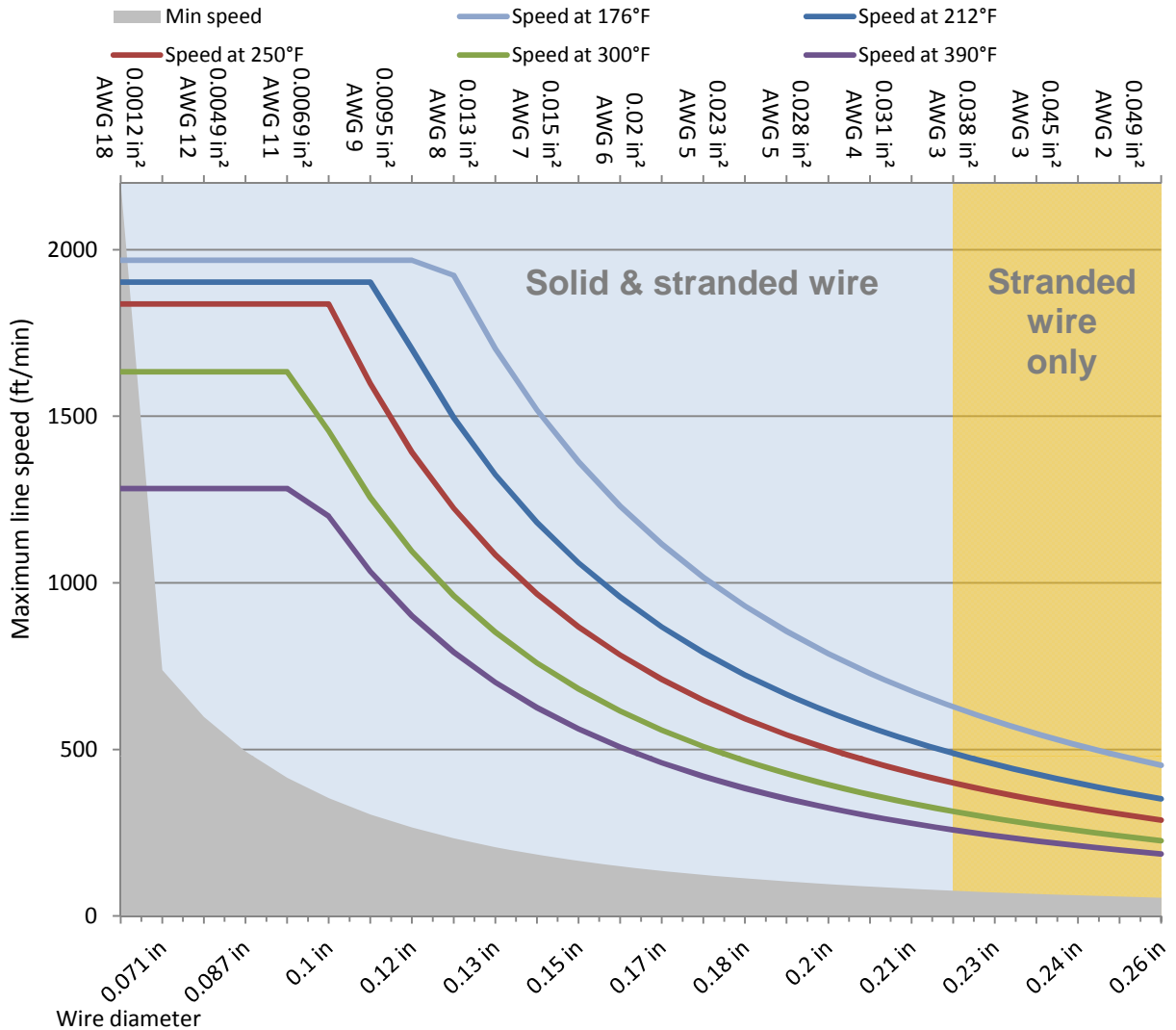


Max. solid wire diameter:	0.18in (4.5mm)
Max. stranded wire area / diam:	0.039in² (25mm²) / 0.22in (5.64mm)
Material:	Copper (Can also preheat aluminium*)
Max. wire temperature:	392°F
Power supply:	400 VAC 3-phase
Input voltage:	360 V to 440 V, 47~65 Hz
Power rating:	25 kW
Pulley diameter:	17.7 inch (450 mm)
Wire line height:	36.6 to 40.2 inch (980 to 1200 mm)

* Contact Proton Products for performance data for non-copper wire materials
 These data are provided as a guide only. For more information, contact Proton Products.
 Minimum speed based on the time at which pulley rim reaches 95% of its final temperature.



PH600-25-400



Max. solid wire diameter:	0.24in (6.00mm)
Max. stranded wire area / diam:	0.054in² (35mm²) / 0.26in (6.68mm)
Material:	Copper (Can also preheat aluminium*)
Max. wire temperature:	392°F
Power supply:	400 VAC 3-phase
Input voltage:	360 V to 440 V, 47~65 Hz
Power rating:	25 kW
Pulley diameter:	23.6 inch (600 mm)
Wire line height:	36.6 to 40.2 inch (980 to 1200 mm)

* Contact Proton Products for performance data for non-copper wire materials
 These data are provided as a guide only. For more information, contact Proton Products.
 Minimum speed based on the time at which pulley rim reaches 95% of its final temperature.

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