

CRANE DATA

1 General

Crane type QXS20-TON x 25ft Hol:19.69ft
 Span 25'-0"
 Crane load (SWL) 40 000 lbs
 Number of MAIN hoists 1 ps

Hoist 1

Trolley type Standard
 Hoist load 40 000 lbs
 Hoisting height MAIN 19'-8 1/4" [max 19'-8 1/4"]
 Hoist type MAIN SX50810200P54FEN0S
 Weight of one hoist and trolley 2 400 lbs
 Hoist group MAIN ASME H3
 Hoisting speed 10/1.6 ft/min 2 - speed

 Trolley traversing group CMAA C
 Trolley traversing speed 65 ft/min Stepless

Trolley rail gauge N/A
 Crane use Indoor

 Crane group CMAA C
 Bridge traveling group CMAA C
 Bridge traveling speed 100 ft/min stepless

 Dynamic coefficient for load 1.15
 Dynamic coefficient dead load 1.10
 Sideways pull factor 1.05
 Crane acceleration time 4.7 s

Weight of crane (with hoists) 7 700 lbs
 Weight of crane bridge (without hoists) 5 300 lbs
 Weight of one end carriage 440 lbs
 Weight of one crane traveling machinery 40 lbs
 Weight of bridge panel 70 lbs
 Weight of one main girder 3 750 lbs
 Weight of crane service platform N/A

 Main girder type (Profile) W27x146-MatA992
 Service platform type N/A
 Surface preparation type SSPC6
 Painting type A 5 mil, Safety Yellow

2 Electrical

Main voltage 460 V /60 Hz
 Control voltage 115 V
 Nominal power of crane 18.1 hp
 Main fuse size at bridge panel 30 A
 Maximum current of crane^{*)} 88.1 A
 Nominal current of crane^{*)} 28.1 A
 Power factor at starting current 0.75
 Power factor at nominal current 0.91
 Voltage drop of crane (conductor) power supply .. % <= 4.0 %