



Calculation number: Cal_KU2t-4.2-9.5m
Crane work number: 2t x4.2m Hol:9.5m
User/Version: RUSAT/ 4.0.39D
Printing date: 2024/03/21
Printing time: 21:27

KU2t x 4.2m Hol:9.5m

CRANE DATA

1 General

Crane load (SWL)	2 000 kg	
Span	4.2 m	
Hoisting height	9.5 m (Max9.5 m)	
Crane group	FEM A5	
Hoist group	FEM M6 (3m)	
Bridge traversing group	FEM M5 (2m)	
Trolley traversing group	FEM M5 (2m)	
Hoisting speed	5/0.8 m/min	2-speed
Trolley traversing speed	0-20 m/min	Stepless
Bridge traveling speed	0-20 m/min	Stepless
Weight of crane (with hoists)	1090 kg	
Weight of one hoist and trolley	270 kg	
Weight of one main girder	370 kg	
Weight of Service platform	N/A	
Main girder type (Box)	300/410/6/12/6/6-Q235	
Surface preparation type	Shot Blasting Sa2.5	
Painting type/depth	E/120 µm	
Runway rail type		
Max./Min. static wheel load	8.82/1.56 kN	
Buffer diameter/center Height	63 mm/115 mm	

2 Crane control

Control method.....Pendant

3 Electrical

Main/Control voltage380 V/50 Hz/48 AC V
Nominal power of crane2.75 kW
Max./Nominal current of crane*).....23.5 A/8.7 A

4 Hoisting motor

Motor type/code/NumberSD01/AD168M223N/1set
Duty groupFEM M6 (3m)
Nominal power.....1.5/0.2 kW
Duty factor**60 % ED**

5 Trolley traversing motor

Motor type/Number.....AF115L411N/1set
Duty groupFEM M5 (2m)
Nominal power.....0.65 kW
Duty factor**40 % ED**

6 Bridge traveling motor

Motor type/Number.....AF115M411N/2set
Duty groupFEM M5 (2m)
Nominal power.....0.3 kW
Duty factor**40 % ED**